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EDWARD CHARLES PICKERING.
1846-1919.

ANNALS
OF
THE ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE
VOLUME 94
THE HENRY DRAPER CATALOGUE
9^h, 10^h, AND 11^h

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PREFACE.

THE lamented death of Edward C. Pickering, for forty-two years Director of this Observatory, took place on February 3, 1919. For a long time he had taken an intense interest in the preparation of the Henry Draper Catalogue. He had the great happiness of seeing its practical completion in manuscript and the publication of the early volumes. The greater happiness, to which he eagerly looked forward, of seeing the completed work in print was denied him. It is fitting that his portrait should appear as the Frontispiece of this volume.

S. I. BAILEY,

Acting Director of the Observatory of Harvard College.

CAMBRIDGE, U.S., *December 17, 1919.*

THE HENRY DRAPER CATALOGUE.

THE Henry Draper Catalogue originated in the attempt to collect in a single catalogue a description of all the stellar spectra which could be classified on the photographs of the Henry Draper Memorial. It was shown in May, 1885, that by placing a prism in front of the objective of a photographic telescope, excellent spectra could be obtained of all the stars of sufficient brightness in the field of the instrument. The immediate effect was that the photographic image of each star, instead of appearing as a point, was spread into a line, the rays of different wave lengths being diverted by the prism to different points upon the plate. These lines were then broadened into bands by giving a rate to the driving clock differing slightly from sidereal time. The principal lines in the spectra appear in these bands. The advantages of this method are, first, that the spectra of several hundred stars can be obtained on a single photograph, while with a slit spectroscope only one star can be photographed at a time. Secondly, the loss of light is so small that, even if stars are faint, satisfactory spectra can be obtained. Thirdly, the spectra can be identified with certainty, since they occupy the same relative positions on the photographs as stars on a chart plate, or map.

The classification of the spectra required for the Henry Draper Catalogue was begun by Miss Annie J. Cannon on October 2, 1911, and practically completed September 30, 1915. Some additional spectra were taken from later plates, where faint stars had not been classified previously. The total number of spectra classified is 242,093, relating to about 222,000 stars. The greater portion of the northern stars were classified from 709 plates taken with the 8-inch Draper Telescope, mounted at Cambridge. In like manner, 1,409 plates of the southern stars were used, taken with the Bache Telescope, mounted at Arequipa, Peru. Each of these instruments has, for an objective, an 8-inch Voigtländer Portrait Lens, corrected by Alvan Clark and Sons. Two prisms having angles of 13° and 5° were originally used with each instrument. They formed spectra having a dispersion such that for the 8-inch Draper Telescope the intervals between the lines $H\beta$ and $H\epsilon$ were 5.61 and 1.60 mm., respectively.

The corresponding intervals for the Bache Telescope were 5.80 and 2.23 mm. It appeared that the definition was better with the prism giving the larger dispersion attached to the 8-inch Draper Telescope, and with the prism giving the smaller dispersion attached to the Bache Telescope. For this reason, the spectra of much fainter stars could be classified from the photographs taken in Arequipa, than from those taken in Cambridge. Exceptions were made in the case of southern stars which are too dense on plates of small dispersion, and of northern stars so near together that their spectra are superposed on plates of long dispersion. Some northern stars between 0° and $+10^{\circ}$ in declination were also classified from plates of short dispersion taken in Arequipa.

In November, 1900, two prisms, having nearly equal angles of about 6° , were attached to the 8-inch Draper Telescope. They were mounted so that they could be rotated by any desired amount, which was measured by means of a graduated circle. When placed in opposite directions they nearly neutralized each other, while, when turned in the same direction, the dispersion was double that of one of the prisms. The angles adopted were such that the dispersions were the same as those previously employed, 5.61 and 1.60 mm.

A number of photographs showing fainter stars were taken with the 16-inch Metcalf Telescope. The regions selected were the centres of the Harvard Standard Regions described in H.A. 14, 477, and a few others, such as the Pleiades, Praesepe, etc. The distance between the lines $H\beta$ and $H\epsilon$ was here 3.90 mm.

On all of the plates described above, the spectra of the bright stars were dense, so that they could not be classified. Accordingly, spectra taken with a larger dispersion were used. For stars north of declination -20° , from one to four prisms were attached to the 11-inch Draper Telescope. The interval between the lines $H\beta$ and $H\epsilon$ varied from 19.63 to 80.50 mm. These spectra have already been described in H.A. 28, Part 1, but as a different system of classification was there employed by Miss Maury, the spectra were again classified by Miss Cannon. This work was extended to stars of the fifth magnitude, and a few that were fainter, by means of H.A. 56, No. 4. For the southern stars, brighter than the sixth magnitude, the spectra are taken from H.A. 28, Part 2, and H.A. 56, No. 5. From one to three prisms were employed, and the interval from $H\beta$ to $H\epsilon$ varied from 21.57 to 72.15 mm.

From August, 1885, to November, 1894, Seed 26+, from December, 1894, to December, 1899, Cramer Crown, from January, 1900, to May, 1911, Seed G. E. 27, and since June, 1911, Hammer Special plates were generally used.

Substantially the same classification has been used in all the publications of the Henry Draper Memorial, except in the case of H.A. 28, Part 1. Slight changes have

been introduced from time to time as experience showed that the classification could be improved. For instance, Class H, used in H.A. 27, has been abandoned, since it has been found that it is identical with Class K, when photographed under favorable conditions. The letters were originally applied empirically, a separate letter for each class of spectrum which appeared to be different. Later, it was found that nearly all the spectra fell into the classes B, A, F, G, K, and M, which thus formed a continuous sequence. Intermediate spectra are indicated by numbers representing tenths of the interval. Thus, A₅ represents a spectrum midway between A₀ and F₀. The numeral is omitted when a precise classification cannot be made. Class B was found to precede A, but the letters could not be reversed without causing confusion. Class P, designating gaseous nebulae, and Class O, stars of the fifth type, appear to precede Class B. The unanimous adoption of this system by an International Committee appointed by the Solar Union has secured its universal acceptance. The countries represented on this Committee were Canada, England, France, Germany, Holland, and the United States.

The designations of the lines used in describing the spectra, are generally the same as in the previous volumes. An exception is made, however, in the case of the series of lines first found in the spectrum of ζ Puppis. Professor Pickering showed these lines to be so closely represented by a modification of Balmer's formula, that he assumed them to be due to "hydrogen under conditions of temperature or pressure yet unknown," as stated in H. C. 16, January 12, 1897. The lines were therefore called "additional hydrogen lines," with the specific designations as follows: line 5411, H β '; 4541.9, H γ '; 4200.3, H δ '; 4026.0, H ϵ '; 3924.0, H ζ '; 3860.8, H η '; 3815.7, H θ '; and 3783.4, ι '. Recent investigators, however, find by experiments in the laboratory that these lines are probably due to helium. They are now commonly called ζ Puppis lines and this designation is accordingly adopted here.

The classification and designation of peculiar spectra present great difficulties. Some spectra are so peculiar that they can not be assigned to any known class, and are marked Pec. in Table I. Others show deviations of various kinds and degrees, and yet resemble the typical spectra in the most essential characteristics. In the latter case, the class which the peculiar spectrum resembles most nearly is given, followed by the letter p. A description of the deviation from the typical spectrum will then be found in the Remarks following Table I. The deviations may occur in several ways, as has already been discussed in H.A. 28, 143. First, in the width of the lines. The difference in the width of the lines, especially whether the lines are diffuse or sharp, was early recognized. On September 8, 1887, the spectra of α Cygni, in which the lines are very sharp, and of α Aquilae, in which they are diffuse, were

photographed on the same plate, to prove that the difference was due to the star and not to the instrument, or condition of the air. Narrow lines will appear hazy, or even double, if the focus is poor, or the air unsteady, and a slit spectroscope is much to be preferred to an objective prism for determining this condition. Whenever the width of the lines appeared to be abnormal, it is noted in the Remarks. With the larger dispersion in H.A. 28 and 56, the deviation from the normal in the width of the lines was always noted, when certainly seen. When the lines are broad, the spectra are designated in H.A. 28, 1, by the letter "b," and in H.A. 28, 2, by Remark 18, when narrow, by the letter "c" and Remark 40, respectively. For convenience of reference, a list of bright stars in whose spectra the lines are narrow, was given in H.A. 56, 162.

Secondly, deviations may occur in the intensity of certain lines in stellar spectra. Numerous spectra in Classes A₀ to A₅, show the double silicon line, 4128.1, 4131.1 to be of increased intensity, and in other spectra the strontium lines 4077.9, 4215.7 are very strong. Lists of a few of these peculiar spectra are given in H.A. 56, 113, 161. The great intensity of these strontium lines in spectra of various classes, such as θ^1 Microscopii of Class A₂, ξ Phoenicis of Class F₀, and ζ Capricorni of Class G₅, is of interest in connection with the relation of these lines to the absolute brightness of the stars, and to the possibility of distinguishing between the so-called "giants" and "dwarfs." Numerous other lines, including those of hydrogen, have also been found to be of abnormal intensity in certain spectra. In the case of C.D.M. $-27^\circ 178$, R. A. $0^h 31^m.7$, Dec. $-27^\circ 50'$, the continuous spectrum is Class G₅, but the hydrogen lines are as strong as in Class F₅. In some spectra of Class K₅, or Ma, such as B.D. $+50^\circ 1725$, R. A. $10^h 5^m.3$, Dec. $+49^\circ 58'$, and C.D.M. $-39^\circ 14192$, R. A. $21^h 11^m.5$, Dec. $-39^\circ 15'$, several lines, including 4435 and 4455, are abnormally intense.

A third peculiarity in stellar spectra is the presence of bright, or emission, lines. At least 750 spectra are known to have bright lines. The gaseous nebulae, Class P, the Fifth Type, Class O, the P Cygni Type, and the Novae are discussed in H.A. 76, No. 3. The presence of bright lines in spectra of Class M, characteristic of long period variables, is indicated by the combination, Md. No symbol has ever been adopted to show the presence of bright lines in spectra of Class B, although the use of a suffix, such as " β " or "h," has been suggested. It seemed best, however, to continue to designate these spectra by placing the letter "p" after the class, until some definite action should be taken by the Committee on Stellar Classification. These spectra may easily be found by means of the Remarks following Table I.

The other two deviations consist in a periodic doubling of the lines in the spectrum, also indicated by the letter "p," and in the existence of the lines of two

classes of spectra completely superposed, designated composite spectra. A large part of the bright stars having composite spectra are known to be double, either visually or spectroscopically. It is assumed that this is always the case, and two lines are accordingly given to such stars.

Miss Cannon has described the classification in full in H.A. 28, 146, and more concisely in H.A. 56, 66. A classification of the gaseous nebulae is given in H.A. 76, 20. For convenience, the classification as used in the present volume is again given below.

Class Pa. Typical nebula, I.C. 418, R. A. $5^h 22^m.8$, Dec. $-12^\circ 46'$. The double line, 3726, 3729, is more conspicuous than the chief nebular lines, 5007.0 and 4959.0. The hydrogen lines $H\alpha$, $H\beta$, $H\gamma$, $H\delta$, $H\epsilon$, and $H\zeta$ are bright.

Class Pb. Typical nebula, The Great Nebula of Orion. Lines 5007.0 and 4959.0 are more intense than in Class Pa.

Class Pc. Typical nebula, I.C. 4997, R. A. $20^h 15^m.6$, Dec. $+16^\circ 25'$. Line 4363.4 is the most conspicuous. Novae usually show this line much stronger than 5007.0 when they first become nebulae.

Class Pd. Typical nebulae, N.G.C. 6826, R. A. $19^h 42^m.1$, Dec. $+50^\circ 17'$, and N.G.C. 6326, R. A. $17^h 12^m.9$, Dec. $-51^\circ 40'$. The chief nebular line, 5007.0, is the strongest line. The greater portion of the gaseous nebulae belong to this and the following class.

Class Pe. Typical nebulae, N.G.C. 7662, R. A. $23^h 21^m.1$, $+41^\circ 59'$, and N.G.C. 7009, R. A. $20^h 58^m.7$, Dec. $-11^\circ 46'$. This class differs from Class Pd in having line 4685.9 present.

Class Pf. Typical nebula, N.G.C. 40, R. A. $0^h 7^m.6$, Dec. $+71^\circ 32'$. A bright band whose centre is at 4650 is the most conspicuous portion of this spectrum and appears to ally it with spectra of Class O.

Class Oa. Typical stars, B.D. $+35^\circ 4013$, R. A. $20^h 8^m.2$, Dec. $+35^\circ 54'$, and C.P.D. $-60^\circ 2578$, R. A. $11^h 5^m.8$, Dec. $-60^\circ 26'$. A broad bright band, whose centre is at 4650, is the most conspicuous portion of these spectra. $H\gamma$ and $H\delta$ are bright, and several other bright bands are seen.

Class Ob. Typical stars, B.D. $+35^\circ 4001$, R. A. $20^h 6^m.5$, Dec. $+35^\circ 53'$, and C.D.M. $-23^\circ 4553$, R. A. $6^h 50^m.0$, Dec. $-23^\circ 48'$. A wide, bright band, whose centre is at the wave length 4686, is the most characteristic feature of these spectra. The hydrogen lines $H\beta$, $H\gamma$, and $H\delta$ are bright, and also those of the ζ Puppis series.

Class Oc. Typical stars, B.D. $+36^\circ 3987$, R. A. $20^h 13^m.3$, Dec. $+37^\circ 7'$ and C.D.M. $-41^\circ 10972$, R. A. $16^h 45^m.3$, Dec. $-41^\circ 41'$. The bands are narrower than in

Classes Oa and Ob, and two well separated lines are seen at 4686 and 4638, the former being twice as bright as the latter. The hydrogen lines are bright, and also the lines of the ζ Puppis series. No dark lines are seen.

Class Od. Typical stars, ζ Puppis and λ Cephei. All lines are dark except 4686 and 4638, which are bright. Seven dark lines of the ζ Puppis series have been photographed. The helium line, 4471.6, is present but very faint in ζ Puppis. Several faint, dark lines between $H\beta$ and $H\gamma$ are seen in the spectrum of λ Cephei, but not in that of ζ Puppis.

Class Oe. Typical star, 29 Canis Majoris, R. A. $7^h 14^m.5$, Dec. $-24^\circ 23'$. The spectrum resembles that of ζ Puppis in having all lines dark except 4686 and 4638. Numerous helium and other dark lines are present. Line 4097.5, sometimes attributed to silicon, and the silicon line, 4089.0 are at their maximum intensity.

Class Oe5. Typical star, τ Canis Majoris, R. A. $7^h 14^m.5$, Dec. $-24^\circ 47'$. All the lines are dark. This spectrum is clearly intermediate between those of Classes Oe and Bo. It resembles those of Class Oe in the presence and intensity of the ζ Puppis series, and those of Class Bo with respect to the helium lines. No bright bands are seen, but the strong dark lines 4649.3 and 4685.9 are present.

Class Bo. Typical star, ϵ Orionis. The hydrogen lines are 0.3 as intense as in the spectrum of α Canis Majoris. The ζ Puppis series is present, but much fainter than in Class Oe5. Oxygen lines are strong. Line 4649.3 is slightly more intense than the helium lines 4026.3 and 4471.6, which are equally strong. The triplet, 4070.0, 4072.5, and 4076.1, is well marked. Lines 4649.3, 4116.3 and 4089.0, reach their greatest intensity in this class and decrease very rapidly in succeeding classes of spectra.

Class B1. Typical stars, β Canis Majoris and β Centauri. The hydrogen lines are seen from $H\beta$ to $H\tau$. The ζ Puppis series is not distinctly seen. The lines of helium are more intense while the silicon and oxygen lines are fainter than in Class Bo. Line 4471.6 exceeds 4649.3, while 4121.0 exceeds 4116.3, in intensity.

Class B2. Typical stars, γ Orionis and α Lupi. The lines of helium are at their maximum intensity in this and the following class. Line 4116.3 is not seen, and lines 4089.0 and 4649.3 are faint.

Class B3. Typical stars, π^4 Orionis and α Pavonis. The hydrogen lines are about 0.5 as intense as in α Canis Majoris. The helium lines, while not stronger than in Class B2, are more prominent, due to the disappearance or extreme faintness of the lines, 4070.0, 4072.5, 4076.1, 4089.0, 4116.3 and 4649.3. Helium lines having the greatest intensities are 3819.8, 4009.4, 4026.3, 4143.9, 4388.1, 4471.6, and 4922.1.

Class B5. Typical stars, η Tauri and ϕ Velorum. These spectra show an advance towards Class A0 in the increased intensity of the calcium line, K, and of the double silicon line 4128.1, 4131.1, which is stronger than the helium line 4121.0, and fainter than 4143.9. Line 4481.3 is 0.7 as intense as 4471.6.

Class B8. Typical stars, β Persei and γ Gruis. The helium lines 4026.3 and 4471.6 are present, together with several lines prominent in the spectra of Class A0. Lines 4471.6 and 4481.3 are approximately equal. Line K is less intense than 4026.3.

Class B9. Typical stars, λ Aquilae and λ Centauri. The spectrum is nearly like that of Class A0, except that 4026.3 is seen and the line K is somewhat fainter than in Class A0.

Class A0. Typical star, α Canis Majoris. The hydrogen lines are at their maximum intensity, and line K is 0.1 as intense as H δ , or less. On plates having sufficient dispersion, the calcium line H, at 3968.6, is separated from H ϵ , 3970.3, and is nearly as intense as line K. Line 4481.3 is the strongest except the hydrogen lines and line K. On a photograph taken with the 13-inch Boyden Telescope, with the dispersion of three prisms, 93 solar lines were measured.

Class A2. Typical stars, δ Ursae Majoris and ι Centauri. The line K is 0.3 or 0.5 as intense as H δ . Solar lines are well marked, especially lines 4481.3, 4226.9, and 4233.8. The two latter form a nearly equal pair. No helium lines are seen in this, or any following class.

Class A3. Typical stars, α Piscis Austrini, and τ^3 Eridani. The line K is more than 0.5 as intense as the compound line H and H ϵ , and is 0.8 as intense as H δ . The metallic lines are more numerous and more intense than in Class A2, while the hydrogen lines are slightly fainter.

Class A5. Typical stars, β Trianguli and α Pictoris. The line K is 0.9 as intense as the compound line H and H ϵ , and more intense than H δ . Line 4481.3 is no longer the most conspicuous among the solar lines. Lines 4299.4, 4300.7, and 4302.7 are well marked.

Class F0. Typical stars, δ Geminorum and α Carinae. The lines of hydrogen are about 0.5 as intense as in α Canis Majoris. The line K is as strong as the compound line H and H ϵ , and about 3.0 as intense as H δ . The lines 4305.6, 4308.0, and 4309.5 and other lines which form the absorption band called G by Fraunhofer, are faint and inconspicuous.

Class F2. Typical star, π Sagittarii. This spectrum resembles Class F0, except that there is more appearance of continuity in the band G, due to increased strength of lines 4305.6 to 4315.2.

Class F5. Typical stars, α Canis Minoris and ρ Puppis. The hydrogen lines are 2.0 as intense as in the Sun, and metallic lines are fainter and less numerous. Line 4325.9 is about 0.1 as strong as H γ . On plates with small dispersion, the Fraunhofer band G appears to be nearly continuous from 4299.4 to 4315.2. The compound line 4308.0 and 4309.5 is more intense than 4315.2. Line 4226.9 is well marked among the numerous lines, but is not 0.5 as strong as H γ .

Class F8. Typical stars, β Virginis and α Fornacis. The spectrum resembles that of the Sun, except that the hydrogen lines are stronger, and a few of the metallic lines are fainter.

Class G0. Typical stars, α Aurigae and β Hydri. The spectrum closely resembles that of the Sun. The hydrogen lines are no longer conspicuous as a series of lines. H γ is 1.5 as intense as 4325.9, and 3.0 as intense as the adjacent line, 4337.7, when the dispersion is sufficient to show the two lines separately. The lines 4076.8 to 4077.9, H δ , and 4226.9 are nearly equal in intensity. The band G is continuous on photographs taken with one or two prisms. The continuous spectrum shows no very marked changes in the distribution of light, from H β to H ϵ , although there is a slight gradual decrease from H γ to H ϵ . The bands H and K are very conspicuous.

Class G5. Typical stars, κ Geminorum and α Reticuli. The hydrogen lines are slightly fainter than in Class G0. H γ when combined with 4337.7 is equal to 4325.9; when separated, H γ is fainter than 4325.9. Several spaces appear brighter than adjacent portions, and in the distribution of light there is a decided advance towards Class K0.

Class K0. Typical stars, α Bootis and α Phoenicis. The hydrogen lines are fainter than in Class G5 and the light of the continuous spectrum shows a decided decrease from H γ to H ϵ . H γ is about 0.5 as strong as 4325.9. Line 4226.9 is 3.0 as intense as in Class G0. Bands H and K reach their greatest intensity. Line 4226.9 is 2.0 as intense as the compound line 4172 and nearly 3.0 as intense as lines 4383 to 4385. The band G, extending from 4299 to 4315 is continuous and is more conspicuous than line 4226.9. Several portions appear brighter than adjacent parts, such as from 4077.9 to H δ , 4215.7 to 4226.9, 4470 to 4525 and 4614 to 4648, approximately.

Class K2. Typical stars, β Cancri and ν Librae. The spectrum resembles Class K5 in the increased intensities of several lines, as 4226.9, and a general faintness of the continuous portion towards the end of shorter wave length. The band G is still continuous.

Class K5. Typical star, α Tauri. The bands H and K and line 4226.9 are the most conspicuous absorption lines. The band G is no longer continuous, owing to

the disappearance of several of the fainter lines. The double lines 4383 to 4385 and 4405 to 4408, form a conspicuous pair, of which the one of shorter wave length is somewhat stronger. Faint breaks in the light are seen at the wave lengths 4762, 4954, and 5168, which are the beginning of the absorption bands of Class M. There is also a sudden diminution in light at $H\beta$, which is nearly as well marked as the similar change at 4762.

Class Ma. Typical stars, α Orionis and γ Hydri. The spectrum is banded. The bands extending from 4762 to 4954 and from 5168 to 5445 are well marked. The change in light at $H\beta$ is much less conspicuous than at 4762. Several bright spaces are seen, such as from 4556 to 4586, and from 4657 to 4668. The lines of the G band are well separated, and line 4315.2 is very faint. Line 4226.9 is the most conspicuous absorption line. The spectrum is faint towards the end of greater wave length, so that bands H and K are generally barely seen.

Class Mb. Typical stars, ρ Persei and γ Crucis. The edges of the absorption bands, at wave lengths 4762, 4954, 5168, and 5445 are strong and appear somewhat like bright bands. These bands fade gradually towards the edge of shorter wave length. Line 4226.9 is very wide and sometimes appears to be as intense as $H\delta$ in the spectrum of α Canis Majoris. Conspicuous bright bands of equal intensity are seen from 4556 to 4586 and from 4614 to 4626. Lines 4299.4, 4300.7, and the compound line 4305.6, 4308.0 and 4309.5 are the only well marked lines remaining of the band G. On isochromatic plates, absorption bands are also seen having edges at the wave lengths 5763, 5816, and 5857, approximately.

Class Mc. Typical stars, W Cygni and RX Aquarii. The continuous spectrum is fainter, and the bright edged bands are stronger, than in Classes Ma and Mb, so that the spectrum appears to be of a fluted character, and on plates of small dispersion many of the dark lines seem to have disappeared.

Class Md. Typical stars, χ Cygni and \circ Ceti. This designation is used for spectra of any division of Class M, in which at least one hydrogen line is bright. The greater portion of the variable stars of long period have this class of spectrum. The spectra differ widely. Either $H\beta$, $H\gamma$, or $H\delta$ may be the strongest bright line, while the underlying spectrum may belong to Class Ma, Mb, or Mc. The subject is further complicated by changes in the relative intensity of the hydrogen lines and probably in the class of spectrum, connected with the variation in the light of the star. As an example, the spectrum of 154615, R Serpentis, may be cited. On April 25, 1912, the bright line, $H\delta$, was seven times as intense as $H\gamma$, while on April 18, 1914, the two lines were of nearly the same intensity. On the first date, the star was of the ninth magnitude, and the phase was 40 days before maximum. On the

second date, the star was at maximum light, about the sixth magnitude. It is evident that no accurate subdivision of these spectra can be made until observations have been obtained at different points on the light curve. It has therefore seemed best to use the designation Md without numeral, in Table I, and to give additional facts, such as the intensities of the bright hydrogen lines, assuming $H\gamma$ to be equal to 10, in the Remarks. Several spectra which have hitherto been called Md1 or Md2, in which $H\beta$ is the strongest bright line, are found to be peculiar and are designated Pec. in Table I. The variable stars R Andromedae, U Cassiopeiae, S Cassiopeiae, R Lyncis, R Canis Minoris, T Geminorum, and R Cygni may be given as examples. These spectra do not show the titanium bands having bright edges at 4762, 4954, and 5168 as in all divisions of Class M, but more nearly resemble the spectrum of π^1 Gruis, which may be placed in a subdivision of Class R, assuming some peculiarities.

Class R. This letter was assigned in 1908, to a few spectra which on photographs of small dispersion, resemble those of Class N between $H\beta$ and $H\gamma$, but which contain so much blue light that the spectrum is visible as far as the calcium bands, H and K. A list of spectra assigned at that time to Class R is given in H. C. 145. A careful study of these spectra shows that they may be subdivided into at least three classes, which are described below.

Class Ro. Typical star, S.D. $-10^\circ 5057$, ptm. magn. 7.04, R. A. $19^h 17^m.6$, Dec. $-10^\circ 54'$. The distribution of light resembles that in Class G5 or K0, and the absorption bands H and K, are well seen. The dark carbon band at 4700 is wide and strong, and the dark band 4395 is about equal to Fraunhofer's G band. Lines 4226.9, 4233.8, 4236.1, and 4239.0 are well marked, and on photographs having small dispersion the appearance at this region is that of a wide, continuous band of absorption. Some spectra have been found during observations for this catalogue, which may be considered to be intermediate between the spectra of Classes K and Ro. One of the best examples is the spectrum of the star S.D. $-19^\circ 3634$, ptm. magn. 8.7, R. A. $13^h 1^m.1$, Dec. $-19^\circ 31'$. This spectrum contains the wide band of absorption near 4227 as in Class Ro, and a fainter band at 4700. Other peculiar spectra of Class K show the same bands in more or less marked degree, as stated in the Remarks.

Class R3. Typical star, B.D. $+5^\circ 5223$, ptm. magn. 8.8, R. A. $23^h 44^m.0$, Dec. $+5^\circ 50'$. The H and K bands of calcium are visible, but they are fainter than in Class Ro, and the continuous spectrum between these bands and $H\gamma$ is not more than 0.5 as intense as in Class Ro.

Class R5. Typical star, S.D. $-3^\circ 1685$, ptm. magn. 7.5, R. A. $6^h 56^m.1$, Dec. $-3^\circ 6'$. In the region of shorter wave length than 4240, the continuous spectrum is barely

visible on plates of normal exposure. When the dispersion is small, the spectrum appears to consist of three wide bright bands, whose centres are at the approximate wave lengths, 4300, 4400, 4840, and whose intensities are estimated to be 3, 6 and 10, respectively.

Class R8. Typical star, B.D. $+61^{\circ} 667$, ptm. magn. 7.92, R.A. $3^{\text{h}} 57^{\text{m}}.2$, Dec. $+61^{\circ} 31'$. The spectrum is very faint from 4240 to the violet, so that on photographs of long dispersion, it is difficult to distinguish between this Class and Class Na.

Class Na. Typical star, 19 Piscium, B.D. $+2^{\circ} 4709$, var., R.A. $23^{\text{h}} 41^{\text{m}}.3$, Dec. $+2^{\circ} 56'$. The spectrum is visible as far towards the violet as the bands H and K, but the portion between 4240 and K is even fainter than in Class R8. When the dispersion is short, the dark band 4700 separates the spectrum into two wide bright bands, the portion from 4400 to 4700 being estimated as 0.8 as intense as that from 4700 to 5100. According to this estimate of the distribution of light, spectra of this class may be designated 0, 8, 10, when compared with those of Class R5, in which the bands were estimated as 3, 6, 10.

Class Nb. Typical star, B.D. $+67^{\circ} 350$, ptm. magn. 7.39, R.A. $4^{\text{h}} 40^{\text{m}}.8$, Dec. $+67^{\circ} 59'$. This spectrum may be designated 0, 6, 10, when the distribution of light is considered. The bright portion from 4400 to 4700 is now only 0.6 as intense as the portion of greater wave length than 4700.

The spectra of some very red stars have recently been obtained with the 24-inch Reflector, using plates stained with pinacyanol or dicyanin. Some examples are the spectra of the variable stars, VX Andromedae, and S Cephei, and also of the stars R.A. $6^{\text{h}} 33^{\text{m}}.3$, Dec. $+22^{\circ} 42'$, and $+49^{\circ} 3673$, R.A. $21^{\text{h}} 51^{\text{m}}.5$, Dec. $+50^{\circ} 1'$. These spectra show no light of shorter wave length than $H\beta$, and probably form later subdivisions of Class N, but it seems wiser to wait until a larger amount of material has been collected, before assigning definite letters to these very peculiar spectra. In the meantime, the facts so far observed are given in the Remarks.

Pec. All spectra which can not be assigned to any known class, considering their principal characteristics. This includes the spectra of Novae, a few variables, very red stars, and some others.

Con. Spectra apparently continuous. This includes the spectra of nebulae without bright lines, or of clusters which resemble such nebulae with the dispersion employed. As these objects appear as surfaces, and objective prisms are used, dark lines would not be visible. Neb. or Cl. is then given in the magnitude column according to the description of the object in H.A. 60, 8.

Table I contains 27,081 stars, between $9^{\text{h}} 00^{\text{m}}.0$ and $12^{\text{h}} 00^{\text{m}}.0$, whose spectra have been classified. A description of each column of the table is given below, preceded by its heading.

H.D. A number for reference, to be added to the number in heavy type at the top of the first column. It is recommended that these numbers be preceded by the letters H.D., indicating the Henry Draper Catalogue, when reference is made to their designations in this catalogue. Thus, the first star on page 17 may be referred to as H.D. 77,901. This notation also conforms to the designations H.A., H.B., and H.C., which are already in use to denote the Harvard Annals, Bulletins, and Circulars, respectively. In like manner, H.N., H.P., H.R., H.S., and H.V. are used to designate the Harvard Nebulae, Photometry, Revised Photometry, Standard Regions, and Variables, respectively.

DM. The number of the star in the Zone of the Bonn Durchmusterung, when its position for 1855 was north of declination -23° . For stars south of this limit, and whose declination in 1875 was north of -52° , the Cordoba Durchmusterung, and for stars south of -52° , the Cape Photographic Durchmusterung, was used. The number of the zone is generally the same as the degree of declination given in the fourth column. When they differ, owing to precession, the number is placed in *Italics*. The number of the nearest zone is then to be substituted. For stars between 6^h and 18^h of right ascension, the nearest zone is always the northern, for other stars, the southern.

Nearly twelve hundred of these stars are not contained in the Bonn, Cordoba, or Cape Durchmusterungs. They are indicated by the absence of a number in the second column. The spectra of these stars were generally classified from plates taken with the 16-inch Metcalf Telescope.

R. A. 1900. The minutes and tenths of the right ascension for 1900. The right ascension of the first star is given in heavy face figures at the top of the table to the right. These positions are only approximate. Owing to the large number of stars in the Catalogue, they will fall into groups, each containing a number of stars whose right ascension is the same in this table. They are then arranged in the order of declination, the northern star being placed first. It may accordingly happen that, when two stars are near together, the preceding one, as shown by its number in the Durchmusterung, may here follow the other.

Dec. 1900. The declination for 1900, expressed in degrees and minutes.

Ptm. The photometric magnitude. This is taken from H.A. 50 or 54, for stars contained in those works, and is given to hundredths of a magnitude. For other stars, which are north of -62° , the magnitude in the Bonn or Cordoba Durchmusterung is used after reducing it to the photometric scale by means of the tables, given in H.A. 72, 214, 245, and H.A. 80, 132. The magnitudes are then given only to tenths. The magnitudes of stars south of -62° , and which are, therefore, not

contained in the Cordoba Durchmusterung, are also given only to tenths, and are derived from the photographic magnitudes given in the next column, by subtracting the color index depending on the class of spectrum. The color index is taken from H.A. 80, 151, and has the values for B₀, -0.24; B₁, -0.22; B₂, -0.19; B₃, -0.17; B₅, -0.12; B₈, -0.05; B₉, -0.02; A₀, 0.00; A₂, +0.06; A₃, +0.08; A₅, +0.14; F₀, +0.28; F₂, +0.34; F₅, +0.42; F₈, +0.50; G₀, +0.56; G₅, +0.78; K₀, +1.00; K₂, +1.07; K₅, +1.18; M, +1.35.

Ptg. The Photographic Magnitude. For stars north of declination -19° , in 1875, the magnitudes are derived from the photometric magnitudes, contained in the preceding column, by adding the correction for the class of spectrum given above. For stars south of -19° , the magnitude is taken from the Cape Durchmusterung, first reducing it to the standard scale as described in H.A. 80, 256. It will be noticed that when either the photometric or photographic magnitudes are derived by means of the color index, they are placed in *Italics*. In the first case, the color index is subtracted, in the second, added. This method is unsatisfactory from its indirectness, but no direct measures are known to exist.

Sp. The Class of Spectrum. A description of the adopted classification will be found on page 5.

Int. The photographic intensity of the spectrum as estimated by Miss Cannon when she observed it. The faintest spectra which could be classified with certainty were estimated as 1, the densest as 10. When a spectrum was too dense to be classified, it was looked for on a plate showing less faint stars. This might be due to a greater dispersion, a larger load on the pendulum of the control clock, a hazy night, or a slower emulsion.

Rem. Remarks are here indicated which furnish much additional information. The letter R refers to additional facts regarding the star, to be found in the Remarks following Table I. When two figures are given they show that the spectrum was classified on another plate. The first figure indicates, in tenths of the interval between two classes, how much the second classification differs from the first. Thus, if the class in column Sp. was F₀, and the spectrum was again estimated F₀, the first figure would be 0; if the second classification was F₅, it would be 5 and if A₅, it would be 5. The average value of the differences of the first 100 of these is ± 0.13 . A comparison of the classification of spectra taken at the Yerkes, Lick, Allegheny, and Mt. Wilson Observatories with those made here is contained in H.A. 56, 263, and gives the average difference ± 0.14 . When the residual was greater than 5, an estimate on a third plate was made, if practicable. If not, the spectra were re-examined. In case one observation appeared to be wrong, it was rejected,

and the facts are given in the Remarks. The second figure indicates the intensity on the second plate. If the spectrum was estimated on a third plate, a hyphen is inserted, and the estimates will be published later. When the estimates of the class differ, the most reliable one is given in Column Sp. The intensities serve to decide which is most likely to be correct; the order of precedence being 6, 5, 7, 4, 8, 3, 2, 9, 10, 1. When the column is not wide enough for a complete remark, it is given in full in the remarks following Table I.

Pl. No. The number of the plate in its series. The letter b indicates that the instrument used was the 8-inch Bache Telescope; the letter c, the 11-inch Draper Telescope; i, the 8-inch Draper Telescope; m, the 16-inch Metcalf Telescope. When the spectrum was taken from H.A. 28, 56, or 76, the volume and page are given and when derived from an unpublished manuscript, the letter *m* is inserted, instead of the plate number.

Table I is followed by a series of Remarks which give much additional information regarding the individual stars. They include the Bayer designation, additional information regarding the spectrum when it is peculiar, and the position and magnitude of adjacent stars when it is probable that they affect the spectrum. When the stars differ only in declination the spectra are superposed, while equal differences in right ascension are shown at the edges of the spectra. In the case of variable stars, the designation by letter and constellation, and the class are given. Novae are designated by I, long period variables by II, irregular variables by III, short period variables by IV, and Algol variables by V. The magnitude at maximum and minimum, and the period are also given. Parallaxes of 0".1, or more, are inserted from a manuscript copy of a Catalogue of Stellar Parallaxes which is being prepared by Professor Schlesinger. Proper motions of 1", or more, are inserted from the list given by van Maanen in A. P. J. 41, 187.

As an example of the facts that can be derived from Table I, it appears that the first star on page 17, H. D. 77,901, is C. DM. $-40^{\circ} 48'66''$, R. A. $9^h 0^m.1$, Dec. $-40^{\circ} 27'$ (1900). Its magnitude on the photometric scale is 9.6. From the table in H.A. 72, 217, it appears that its magnitude in the Cordoba Durchmusterung is 9.1. Its photographic magnitude is 10.0, found by reducing the magnitude 9.4, in the Cape Photographic Durchmusterung, to the standard scale as described in H.A. 80, 256. The intensity is 1. The observation was made on B 39925, taken with the 8-inch Bache Telescope.

TABLE I.
THE HENRY DRAPER CATALOGUE.

ANNALS OF HARVARD COLLEGE OBSERVATORY.

77800

8^h 59^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1482	59.6	+51 3	8.6	9.4	G5	3	..	38240i	51	4868	59.8	-46 37	10.2	9.8	Ao	2	..	38415b
2	1914	59.6	+41 27	9.4	10.4	Ko	1	..	38639i	52	4368	59.8	-48 7	8.8	9.1	B8	4	R	38415b
3	1963	59.6	+11 58	8.6	9.4	G5	3	..	38198i	53	4367	59.8	-48 35	10.2	9.4	Ao	3	..	38415b
4	2159	59.6	+ 8 13	9.1	9.1	Ao	2	..	38198i	54	3784	59.8	-50 10	8.6	9.7	K5	3	..	38415b
5	2193	59.6	- 2 5	9.12	9.18	A2	7	..	19392b	55	852	59.8	-70 27	9.1	9.5	F5	3	..	21452b
6	2732	59.6	-17 18	9.2	10.2	Ko	2	..	46198b	56	1965	59.9	+42 7	8.7	9.0	F2	2	..	38639i
7	6015	59.6	-32 30	9.7	10.2	Ko	1	..	40081b	57	1899	59.9	+16 17	9.3	9.3	Ao	5	..	5396m
8	5707	59.6	-33 19	9.7	9.6	A5	2	..	40081b	58	2231	59.9	+ 1 26	8.2	9.2	Ko	2	..	37606i
9	5179	59.6	-38 54	10.1	10.0	Ao	1	..	39925b	59	2779	59.9	-12 52	8.2	8.2	Ao	7	..	19016b
10	4856	59.6	-40 35	9.9	10.0	F8	1	..	39925b	60	2610	59.9	-19 41	8.5	8.6	Fo	5	..	13144b
11	4882	59.6	-43 44	10.2	10.2	Ko	1	..	38418b	61	6210	59.9	-27 12	9.1	10.1	G5	1	..	24494b
12	5072	59.6	-44 59	9.39	8.7	Ao	3	..	19156b	62	6867	59.9	-31 47	9.6	9.6	F5	2	..	40081b
13	4613	59.6	-47 37	10.0	9.8	F2	2	..	38415b	63	5322	59.9	-35 57	9.9	10.1	Go	1	..	39925b
14	4072	59.6	-49 52	10.5	10.2	Ko	1	..	38415b	64	5419	59.9	-37 48	8.0	8.9	G5	3	..	13055b
15	3441	59.6	-51 23	10.2	9.9	A	1	..	40275b	65	4075	59.9	-49 18	7.3	8.7	Ko	8	..	38415b
16	954	59.6	-66 56	10.1	10.1	Ao	3	..	21452b	66	4076	59.9	-49 51	9.4	9.6	F5	3	..	38415b
17	362	59.7	+75 29	9.00	9.28	Fo	3	..	37714i	67	3785	59.9	-50 46	8.4	9.1	F8	5	..	38415b
18	1218	59.7	+59 17	7.6	8.6	Ko	3	..	37705i	68	3450	59.9	-51 57	9.6	9.4	A3	2	..	40275b
19	1309	59.7	+53 23	7.57	8.35	G5	3	..	37705i	69	1911	59.9	-55 13	8.61	8.9	Go	3	5,2	40275b
20	1472	59.7	+46 34	8.7	9.7	Ko	1	..	38639i	70	998	59.9	-69 23	8.3	8.8	F8	6	..	21452b
21	1908	59.7	+36 49	9.1	9.5	F5	1	..	37345i	71	293	59.9	-81 49	8.9	9.0	A5	4	..	20869b
22	1865	59.7	+29 7	8.7	9.1	F5	2	..	38630i	72	81	59.9	-88 16	9.2	10.3	K2	2	..	22578b
23	2025	59.7	+14 39	8.99	9.99	Ko	4	0,1	5396m	73	2037	0.0	+13 9	9.9	10.9	Ko	2	..	5396m
24	2532	59.7	- 4 12	8.7	8.7	Ao	3	..	19226b	74	2138	0.0	+ 2 48	7.21	7.27	A2	7	..	37606i
25	2685	59.7	-15 32	8.7	9.8	K2	2	..	18995b	75	2196	0.0	- 1 16	8.9	9.3	F5	3	..	19392b
26	2681	59.7	-21 35	8.6	10.1	Ko	1	..	13144b	76	2562	0.0	- 3 36	8.2	8.6	F5	7	..	19226b
27	6694	59.7	-26 20	8.2	8.9	Ao	4	..	24494b	77	2533	0.0	- 4 17	8.2	9.2	Ko	3	..	19226b
28	7085	59.7	-29 54	9.3	9.3	G5	2	..	24494b	78	2757	0.0	-13 19	9.2	9.8	Go	2	..	18995b
29	4918	59.7	-42 23	9.8	9.2	Ko	3	..	38418b	79	2679	0.0	-16 51	7.6	7.9	F2	8	..	13154b
30	3445	59.7	-51 27	9.2	9.6	A5	3	..	40275b	80	6869	0.0	-31 16	9.9	10.1	A	1	..	40081b
31	1837	59.7	-57 23	9.1	9.4	A	1	..	41151b	81	5321	0.0	-36 21	7.09	7.7	F5	8	..	13055b
32	997	59.7	-69 46	7.8	8.2	F5	3	..	24527b	82	5191	0.0	-38 25	8.4	8.9	Ko	2	..	13055b
33	506	59.8	+69 37	7.74	9.09	Ma	4	..	37706i	83	4374	0.0	-48 17	9.2	9.1	Go	4	..	38415b
34	689	59.8	+65 42	9.4	10.2	G5	2	..	37517i	84	1987	0.0	-55 2	9.01	8.5	Ao	4	1,3	40275b
35	2041	59.8	+23 27	8.7	9.7	Ko	2	..	38173i	85	985	0.0	-64 24	8.9	8.9	B9	5	..	21452b
36	2153	59.8	+19 49	7.95	8.37	F5	4	..	37607i	86	957	0.0	-66 24	9.2	9.2	Ao	5	..	21452b
37	1898	59.8	+16 18	8.6	9.6	Ko	5	..	5396m	87	879	0.0	-68 17	5.82	7.6	K5	..	0,7	56,126
38	2194	59.8	- 1 49	8.6	9.8	K5	3	..	19392b	88	152	0.0	-86 51	9.6	9.6	Ao	3	..	15145b
39	2778	59.8	-12 40	9.6	9.7	A2	2	..	19016b	89	1364	0.1	+56 31	8.8	9.6	G5	2	..	37705i
40	2678	59.8	-16 54	9.6	9.9	Fo	2	..	46198b	90	1362	0.1	+52 3	7.33	8.33	Ko	5	..	38240i
41	8030	59.8	-23 51	7.6	8.0	A3	7	..	13144b	91	1637	0.1	+47 32	9.0	9.6	Go	2	..	38240i
42	7086	59.8	-29 22	8.6	8.8	A5	3	..	24494b	92	2004	0.1	+17 47	7.95	8.01	A2	5	..	37607i
43	6860	59.8	-31 31	9.0	9.6	Ko	2	..	40081b	93	1975	0.1	+15 12	9.0	9.6	Go	4	..	5396m
44	5187	59.8	-38 38	8.6	9.2	F8	3	..	13055b	94	2563	0.1	- 3 23	7.42	8.49	K2	5	..	19226b
45	5186	59.8	-39 4	9.2	9.7	A2	3	..	39925b	95	2534	0.1	- 4 14	9.2	9.3	A5	2	..	19226b
46	5118	59.8	-39 44	10.3	9.5	Fo	1	..	39925b	96	2706	0.1	- 6 1	9.7	10.0	F2	1	..	19231b
47	5121	59.8	-39 49	8.9	9.7	K2	1	..	39925b	97	6873	0.1	-31 27	9.9	10.1	A	1	..	40081b
48	4762	59.8	-41 52	8.9	8.5	G5	5	..	38418b	98	6021	0.1	-33 1	9.6	9.6	F5	1	..	40081b
49	4885	59.8	-43 40	9.4	8.8	Ao	4	..	38418b	99	5196	0.1	-38 36	10.9	10.3	A5	1	..	39925b
50	5073	59.8	-44 31	10.5	9.4	A2	1	..	38418b	100	5195	0.1	-38 54	10.4	9.9	A2	1	..	39925b

THE HENRY DRAPER CATALOGUE.

77900

9^h 0^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4866	m. 0.1	° 40 27	9.6	10.0	K2	1	..	39925b	51	2544	m. 0.4	° 11 17	9.7	11.1	Ma	1	..	18995b
2	4765	0.1	41 10	7.2	8.2	G5	6	..	38418b	52	2784	0.4	12 42	8.4	8.9	F8	5	..	19016b
3	4869	0.1	46 39	10.9	9.8	A2	2	..	38415b	53	2688	0.4	15 36	9.5	10.3	G5	1	..	46198b
4	4870	0.1	47 1	7.8	7.5	B5	7	..	38415b	54	2565	0.4	18 56	8.6	8.6	B9	4	..	13154b
5	4079	0.1	49 44	9.1	9.3	A0	5	..	38415b	55	2687	0.4	21 39	9.1	9.8	G5	1	..	13144b
6	3454	0.1	51 39	10.2	9.9	A2	1	..	40275b	56	6854	0.4	25 16	8.34	8.6	F5	5	..	13144b
7	2072	0.1	53 9	6.48	7.0	B9	10	..	40275b	57	4870	0.4	40 26	9.0	8.9	B9	4	..	39925b
8	1913	0.1	55 47	8.3	8.8	A0	6	2,3	40275b	58	4894	0.4	43 27	9.2	9.6	K5	2	..	38418b
9	958	0.1	66 19	9.5	9.6	A2	4	..	21452b	59	4382	0.4	48 10	9.4	9.4	B	2	R	38415b
10	777	0.1	71 46	8.4	9.4	K0	2	..	21452b	60	4381	0.4	48 14	9.8	9.1	A0	5	..	38415b
11	363	0.2	+75 35	8.97	9.97	K0	2	..	37714i	61	3790	0.4	50 46	9.8	10.2	K2	1	..	38415b
12	2200	0.2	+38 51	4.71	5.49	G5	..	0,10	56,86	62	2074	0.4	54 1	8.9	9.8	K5	1	..	40275b
13	1968	0.2	+21 27	8.7	9.7	K0	1	..	37607i	63	1841	0.4	58 0	8.4	9.4	K5	1	..	41151b
14	2566	0.2	-3 54	9.2	9.3	A2	5	..	19226b	64	1063	0.4	66 6	8.9	9.2	F0	5	..	21452b
15	2733	0.2	-9 44	7.26	7.40	A5	8	..	18995b	65	960	0.4	66 48	10.1	10.7	G0	1	..	21452b
16	2543	0.2	-11 18	8.2	9.3	K2	6	..	18995b	66	507	0.5	+69 18	9.8	10.6	G5	2	..	37706i
17	2686	0.2	-15 33	9.7	10.5	G5	2	..	46198b	67	1999	0.5	+38 40	6.59	6.87	F0	..	5,6	56,86
18	2780	0.2	-21 0	8.6	10.2	K5	1	..	13144b	68	1938	0.5	+35 44	8.7	9.2	F8	1	..	37345i
19	6022	0.2	-32 24	9.4	10.5	K2	1	..	40081b	69	1806	0.5	+33 45	7.9	8.0	A2	3	..	37345i
20	6023	0.2	-32 43	7.5	7.5	F0	7	..	40081b	70	2785	0.5	-12 31	8.6	9.1	F8	3	..	19016b
21	5548	0.2	-34 39	7.9	8.6	A0	6	..	40081b	71	2759	0.5	-13 56	9.2	9.3	A3	2	..	19016b
22	5421	0.2	-37 44	9.4	9.2	B8	3	..	13055b	72	2689	0.5	-15 16	9.9	10.3	F5	2	..	46198b
23	5198	0.2	-38 58	9.8	9.9	A0	2	..	39925b	73	2785	0.5	-20 44	9.0	9.6	G0	2	..	18977b
24	4874	0.2	-46 29	9.8	9.9	K0	1	..	38415b	74	5722	0.5	-34 2	10.0	10.1	G0	1	..	40081b
25	4619	0.2	-47 32	8.8	8.7	A5	4	..	38415b	75	5334	0.5	-35 51	10.2	10.4	K0	1	..	39925b
26	4080	0.2	-49 21	8.4	9.0	A0	7	..	38415b	76	5429	0.5	-37 17	10.0	10.1	F5	1	..	39925b
27	3786	0.2	-50 54	8.4	9.4	K0	3	..	38415b	77	5203	0.5	-38 36	10.0	10.0	A0	2	..	39925b
28	959	0.2	-67 5	8.4	9.0	G0	2	..	21452b	78	4880	0.5	-46 9	10.2	9.8	F8	2	..	38415b
29	1638	0.3	+47 33	8.6	9.2	G0	3	..	38240i	79	4384	0.5	-49 2	10.0	9.7	G0	2	..	38415b
30	1998	0.3	+38 28	8.1	8.5	F5	3	..	37345i	80	1992	0.5	-54 45	8.9	9.4	A0	2	..	40275b
31	1930	0.3	+31 18	8.5	8.6	A5	1	..	38630i	81	550	0.5	-74 1	6.7	6.7	B9	6	..	24452b
32	2038	0.3	+24 8	8.7	9.3	G0	2	..	37607i	82	371	0.5	-79 45	8.0	8.1	A3	6	..	20869b
33	2026	0.3	+14 10	10.6	11.2	G	1	..	5396m	83	1680	0.6	+45 34	8.6	9.4	G5	2	..	38639i
34	2735	0.3	-9 19	8.4	9.8	Ma	2	E	18995b	84	2202	0.6	+39 5	8.1	8.6	F8	1	..	37345i
35	2736	0.3	-10 59	8.6	8.6	B9	7	..	18995b	85	2007	0.6	+17 31	7.57	8.35	G5	3	..	37607i
36	2781	0.3	-20 38	8.12	8.9	K2	4	..	13144b	86	1901	0.6	+16 15	7.27	7.25	B9	6	1,8	37607i
37	6704	0.3	-26 42	8.1	8.1	B9	7	..	24494b	87	2027	0.6	+13 59	10.6	11.4	G5	1	..	5396m
38	6877	0.3	-32 3	7.7	9.3	Ma	4	..	40081b	88	2570	0.6	-3 11	8.2	9.2	K0	5	..	19392b
39	6024	0.3	-32 19	9.6	9.3	A3	2	..	40081b	89	2786	0.6	-12 58	9.2	9.5	F0	1	..	18995b
40	5200	0.3	-38 27	9.0	8.3	A2	4	..	13055b	90	8038	0.6	-23 22	9.1	9.0	A3	3	..	13144b
41	4930	0.3	-42 30	10.2	10.0	K0	1	..	38418b	91	4773	0.6	-41 45	9.4	8.8	A2	5	..	38418b
42	4821	0.3	-45 38	8.5	9.0	K0	3	..	38415b	92	551	0.6	-73 26	8.4	8.7	F0	3	..	22988b
43	4621	0.3	-47 9	10.0	9.8	A5	2	..	38415b	93	442	0.7	+72 40	8.5	9.6	K2	1	..	37714i
44	3789	0.3	-50 19	9.4	9.6	A0	3	..	38415b	94	508	0.7	+69 33	8.9	9.7	G5	4	..	37706i
45	881	0.3	-68 32	8.9	9.4	F8	4	..	21452b	95	1976	0.7	+14 54	9.44	10.44	K0	3	..	5396m
46	1639	0.4	+47 4	8.6	9.0	F5	1	..	38639i	96	2116	0.7	+5 30	5.41	6.41	K0	10	R	37606i
47	1937	0.4	+35 16	8.1	8.6	F8	2	..	37345i	97	2115	0.7	+5 7	8.5	8.8	F0	3	..	37606i
48	1899	0.4	+26 31	8.5	9.5	K0	2	2,1	38630i	98	2681	0.7	-16 57	8.2	9.4	K5	2	..	13154b
49	2537	0.4	-4 18	8.6	9.6	K0	3	..	19226b	99	8041	0.7	-23 48	7.9	8.3	F0	4	..	13144b
50	2538	0.4	-5 5	9.45	9.59	A5	1	..	19231b	100	7693	0.7	-24 41	var.	var.	Md	..	R	56,200

ANNALS OF HARVARD COLLEGE OBSERVATORY.

78000

9^h 0^m 7^s

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H. D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4934	m. 0.7	° -42 28	10.2	9.9	F8	2	..	38418b	51	1978	m. 1.0	° +15 33	10.6	11.6	Ko	2	..	5396m
2	4933	0.7	-42 57	10.0	10.0	Ko	2	..	38418b	52	2141	1.0	+ 3 27	9.2	9.2	Ao	3	..	37606i
3	4881	0.7	-46 21	10.2	9.9	A2	1	..	38415b	53	2710	1.0	- 5 49	10.4	11.4	Ko	1	..	19231b
4	4883	0.7	-46 42	3.69	6.3	Ko	..	0.8 R	28,203	54	2716	1.0	- 8 9	8.6	9.8	K5	1	..	19231b
5	4882	0.7	-47 3	6.55	6.7	B3	..	5.4	28,203	55	2743	1.0	-14 24	8.8	9.8	Ko	4	..	18995b
6	2078	0.7	-53 41	8.5	9.7	Ma	1	..	40275b	56	2742	1.0	-14 36	9.2	9.7	F8	2	..	18995b
7	1987	0.7	-56 14	9.4	9.4	A	1	..	41151b	57	6719	1.0	-26 43	9.9	10.3	G5	1	..	24494b
8	1159	0.7	-62 12	10.1	10.2	A2	1	..	40096b	58	4939	1.0	-42 40	10.5	9.9	F5	1	..	38418b
9	779	0.7	-72 3	7.7	7.7	Ao	5	0.5	24527b	59	4834	1.0	-45 25	10.0	9.8	Ao	1	..	38415b
10	574	0.8	+67 34	9.5	10.0	F8	2	..	37517i	60	4095	1.0	-49 13	10.2	10.2	G5	1	..	38415b
11	1977	0.8	+15 40	8.0	9.4	Ma	5	5.2	5396m	61	4096	1.0	-49 24	9.4	9.0	A5	5	..	38415b
12	2541	0.8	- 4 15	10.4	10.5	A2	2	..	19392b	62	2082	1.0	-53 20	9.0	9.4	F5	2	..	40275b
13	2714	0.8	- 7 13	8.2	8.3	A3	7	..	19226b	63	1165	1.0	-61 50	9.0	10.9	K2	1	..	40096b
14	2715	0.8	- 7 52	var.	var.	A2	2	R	19231b	64	1027	1.0	-67 57	10.0	10.0	Ao	2	..	21452b
15	2787	0.8	-12 58	10.6	10.6	Ao	1	..	18995b	65	1933	1.1	+31 1	8.7	9.7	Ko	1	..	38630i
16	2691	0.8	-15 34	9.9	10.0	A3	3	..	46198b	66	2051	1.1	+22 48	8.37	8.37	Ao	4	..	37607i
17	5342	0.8	-35 50	10.2	10.1	Ao	1	..	39925b	67	1903	1.1	+16 18	10.2	10.8	G	1	..	5396m
18	5135	0.8	-39 46	10.0	10.0	Ko	1	..	39925b	68	2028	1.1	+14 49	9.9	10.9	K	1	..	5396m
19	5136	0.8	-39 53	11.1	10.0	Ao	1	..	39925b	69	2039	1.1	+13 26	10.2	11.2	Ko	3	..	5396m
20	4876	0.8	-40 40	8.7	9.2	G5	3	..	39925b	70	2127	1.1	- 1 9	9.6	10.0	F5	2	..	19392b
21	4831	0.8	-45 55	10.5	10.2	Ko	1	..	38415b	71	2571	1.1	- 4 3	9.7	9.8	A5	2	..	19392b
22	4884	0.8	-46 9	10.2	9.9	Ao	2	..	38415b	72	2577	1.1	- 8 43	8.4	8.8	F5	3	..	19231b
23	4628	0.8	-47 48	8.9	9.0	F5	4	..	38415b	73	2791	1.1	-13 4	9.2	9.5	Fo	3	..	18995b
24	3796	0.8	-50 39	10.5	9.9	A5	2	..	38415b	74	2742	1.1	-17 24	9.1	10.3	K5	1	..	46198b
25	3798	0.8	-51 3	8.8	9.0	Ao	5	..	38415b	75	6904	1.1	-28 38	9.4	9.8	B9	2	..	24494b
26	1893	0.8	-52 30	8.0	9.3	K5	3	..	40275b	76	7107	1.1	-29 31	8.9	8.8	B9	5	..	24494b
27	1848	0.8	-57 22	7.9	8.3	Ao	2	..	42241b	77	5730	1.1	-33 10	10.9	9.9	Ao	1	..	40081b
28	548	0.9	+70 12	8.7	9.8	K2	2	..	38602i	78	5441	1.1	-37 15	10.4	10.1	Ko	1	..	39925b
29	2265	0.9	+20 31	7.9	8.9	Ko	4	..	37607i	79	4785	1.1	-42 0	9.8	9.1	A3	4	..	38418b
30	2790	0.9	-12 31	8.8	9.8	Ko	2	..	19016b	80	4941	1.1	-42 52	9.2	9.1	Ao	3	..	38418b
31	2741	0.9	-14 11	8.6	8.7	A2	7	..	19016b	81	4097	1.1	-49 56	10.2	10.1	Ko	1	..	38415b
32	2788	0.9	-20 51	8.6	9.5	A5	2	..	13144b	82	3803	1.1	-50 35	9.6	9.9	F8	2	..	38415b
33	2492	0.9	-22 35	8.0	10.4	K5	1	..	13144b	83	3472	1.1	-51 36	9.2	9.9	Ko	1	..	40275b
34	6900	0.9	-28 23	8.9	9.3	A2	4	..	24494b	84	1167	1.1	-61 57	7.7	8.3	Fo	7	..	13026b
35	6899	0.9	-28 37	6.76	8.3	Ko	8	..	24494b	85	990	1.1	-64 29	8.8	10.2	Ma	1	..	21452b
36	5559	0.9	-34 26	10.2	10.0	A2	1	..	40081b	86	554	1.1	-75 20	8.23	9.6	Ma	4	..	21453b
37	5435	0.9	-37 24	8.8	9.5	Ao	3	..	13055b	87	285	1.2	+81 25	8.9	9.0	A3	3	..	37546i
38	5212	0.9	-38 36	10.9	10.3	A3	1	..	39925b	88	823	1.2	+63 39	7.8	8.8	Ko	4	..	37517i
39	4936	0.9	-43 4	9.0	8.6	F8	5	..	38418b	89	2045	1.2	+23 44	8.3	8.4	A2	3	..	37607i
40	4885	0.9	-46 59	10.9	10.1	Ao	1	..	38415b	90	1905	1.2	+16 43	9.9	10.0	A2	3	..	5396m
41	4094	0.9	-49 26	10.5	10.1	A2	1	..	38415b	91	1981	1.2	+15 37	8.0	8.4	F5	7	3,4	5396m
42	4093	0.9	-50 4	10.2	10.1	F8	2	..	38415b	92	2741	1.2	-10 57	7.9	8.9	Ko	7	..	18995b
43	1084	0.9	-63 19	8.2	8.2	B8	7	..	21452b	93	2547	1.2	-11 21	9.1	10.3	K5	2	..	18995b
44	1066	0.9	-65 28	9.2	9.5	F2	3	..	21452b	94	5731	1.2	-33 39	9.1	10.4	K5	1	..	40081b
45	1065	0.9	-66 0	4.18	4.32	A5	..	R	28,203	95	4786	1.2	-41 52	10.9	10.0	Ao	2	..	38418b
46	961	0.9	-66 50	10.6	10.7	A3	1	..	21452b	96	5096	1.2	-44 12	9.1	8.6	A2	3	..	38418b
47	1002	0.9	-69 35	9.1	9.1	Ao	4	..	21452b	97	5097	1.2	-44 25	7.8	8.6	K2	3	..	38418b
48	448	1.0	+73 25	8.7	9.5	G5	2	..	37714i	98	4836	1.2	-45 59	9.4	9.6	Fo	3	..	38415b
49	1312	1.0	+53 39	8.6	9.6	Ko	3	..	38650i	99	4890	1.2	-46 11	9.4	9.3	Ao	3	..	38415b
50	1969	1.0	+20 53	7.66	8.22	Go	5	..	37607i	100	3473	1.2	-51 15	9.4	9.6	Ao	3	..	38415b

THE HENRY DRAPER CATALOGUE.

78100

9^h 1^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2086	m. 1.2	° 53 18	9.4	9.4	Ao	2	..	40275b	51	1247	m. 1.5	° 59 38	8.6	9.2	F8	1	..	41151b
2	1998	1.2	-54 6	9.7	9.7	A	1	..	40275b	52	1069	1.5	-65 36	9.9	9.9	A	1	..	21452b
3	492	1.3	+71 47	7.18	8.18	Ko	6	..	38602i	53	964	1.5	-66 57	8.9	9.7	G5	1	..	21452b
4	575	1.3	+66 55	9.5	10.1	G	2	..	37517i	54	577	1.6	+67 32	4.87	5.37	F8	..	3, R	1765c
5	824	1.3	+63 44	8.8	8.8	A	1	..	37517i	55	2052	1.6	+22 20	9.5	10.1	G	1	..	37607i
6	1315	1.3	+55 29	8.1	9.1	Ko	3	..	37705i	56	2164	1.6	+ 8 44	8.1	8.4	Fo	4	..	38198i
7	1313	1.3	+53 41	8.1	8.2	A2	3	..	37705i	57	2817	1.6	- 6 51	8.4	9.0	Go	5	..	19226b
8	1642	1.3	+47 49	7.8	8.8	Ko	5	..	38240i	58	2570	1.6	-18 56	8.6	8.9	F2	3	..	13154b
9	1641	1.3	+47 43	8.9	9.2	Fo	1	..	38240i	59	8049	1.6	-23 20	9.1	9.2	Ao	2	..	13144b
10	1982	1.3	+15 30	9.4	10.0	G	2	..	5396m	60	7707	1.6	-24 42	8.0	9.2	F5	3	..	13144b
11	2029	1.3	+13 55	10.2	10.8	G	1	..	5396m	61	6242	1.6	-27 23	9.2	10.1	A3	2	..	24494b
12	2040	1.3	+13 38	8.9	9.2	Fo	5	2,2	5396m	62	7182	1.6	-30 52	7.9	8.8	K5	2	..	18927b
13	2121	1.3	+ 4 15	8.1	9.1	Ko	3	..	37606i	63	6043	1.6	-32 34	8.4	10.2	K5	1	..	40081b
14	2790	1.3	- 2 32	9.0	9.8	G5	5	..	19392b	64	5447	1.6	-37 24	10.2	9.5	Ao	1	..	13055b
15	5146	1.3	-40 1	10.4	9.7	A2	1	..	39925b	65	4793	1.6	-41 47	7.6	7.9	A3	7	..	38418b
16	4840	1.3	-45 28	8.2	8.0	Ao	7	..	38415b	66	1908	1.6	-52 41	8.5	9.6	Ko	2	..	40275b
17	4634	1.3	-47 49	9.0	8.3	A2	5	..	38415b	67	2092	1.6	-53 12	9.7	9.7	Ao	1	..	40275b
18	4395	1.3	-48 26	10.0	9.6	F8	1	..	38415b	68	1302	1.6	-60 52	9.6	10.7	K2	1	..	40096b
19	4100	1.3	-49 44	10.0	9.6	Ao	2	..	38415b	69	965	1.6	-67 1	8.7	9.2	F8	4	..	21452b
20	2001	1.3	-54 13	9.4	9.4	Ao	2	..	40275b	70	1003	1.6	-69 51	9.3	9.4	A2	6	..	21452b
21	991	1.3	-64 36	9.7	9.7	A	1	..	21452b	71	469	1.6	-77 42	8.7	10.1	Mb	3	..	21453b
22	286	1.4	+80 56	9.6	10.6	Ko	1	..	37493i	72	407	1.6	-78 9	10.1	10.1	Ao	3	..	21453b
23	576	1.4	+67 4	9.0	9.3	Fo	4	..	37517i	73	341	1.7	+76 1	9.27	10.05	G5	2	..	37714i
24	1102	1.4	+60 57	8.7	8.7	B9	3	..	37705i	74	721	1.7	+64 40	8.85	9.35	F8	3	..	37517i
25	1682	1.4	+45 34	9.0	10.0	Ko	1	..	38639i	75	2048	1.7	+23 23	6.30	6.72	F5	9	..	37607i
26	2142	1.4	+ 3 13	7.9	8.3	F5	4	..	37606i	76	2573	1.7	- 3 46	9.2	9.3	A2	4	..	19392b
27	2202	1.4	- 1 22	9.2	9.2	Ao	4	..	19392b	77	2740	1.7	- 9 22	7.86	8.86	Ko	4	..	18995b
28	2739	1.4	- 9 44	8.1	9.1	Ko	3	..	18995b	78	2698	1.7	-15 44	8.8	9.3	F8	3	..	13154b
29	2743	1.4	-18 8	8.6	9.0	F5	3	..	13154b	79	2682	1.7	-16 45	9.1	10.1	Ko	1	..	13154b
30	2790	1.4	-21 8	8.0	9.3	G5	2	..	13144b	80	2745	1.7	-17 22	9.2	9.6	F5	3	..	13154b
31	5099	1.4	-44 34	9.4	9.6	G5	1	..	38418b	81	2617	1.7	-19 43	8.6	9.2	G5	3	..	13144b
32	4843	1.4	-45 20	10.2	9.8	A2	2	..	38415b	82	6867	1.7	-25 50	8.9	9.5	Go	3	..	24494b
33	4892	1.4	-46 25	6.98	7.3	A2	4	0,9	4947b	83	5355	1.7	-35 50	9.4	8.9	Ao	3	..	13055b
34	4398	1.4	-48 25	9.4	9.1	Ao	4	..	38415b	84	4953	1.7	-42 39	8.9	8.9	Go	4	..	38418b
35	1904	1.4	-52 7	7.1	8.4	Go	5	..	40275b	85	4912	1.7	-43 21	10.5	10.1	F2	2	..	38418b
36	2002	1.4	-54 32	8.7	8.9	Ao	4	..	40275b	86	4896	1.7	-46 39	9.0	8.6	B8	5	..	38415b
37	1068	1.4	-65 43	8.9	9.7	G5	2	..	21452b	87	4640	1.7	-48 4	8.8	8.6	Ao	6	..	38415b
38	1943	1.5	+37 29	8.1	8.5	F5	4	..	37345i	88	4107	1.7	-49 16	10.0	9.6	Go	3	..	38415b
39	1934	1.5	+31 37	7.06	8.13	K2	3	0,3	38630i	89	2005	1.7	-54 26	8.6	9.7	K2	1	..	40275b
40	1691	1.5	+28 32	8.7	9.0	Fo	2	..	38630i	90	1924	1.7	-55 57	6.9	7.0	B9	4	..	42241b
41	2047	1.5	+23 16	8.6	9.6	Ko	2	..	37607i	91	1304	1.7	-60 37	8.5	8.8	F8	2	..	41151b
42	2124	1.5	+18 32	8.5	9.5	Ko	3	..	37607i	92	857	1.7	-70 58	9.2	9.2	Ao	5	..	21452b
43	2791	1.5	- 2 13	7.6	8.2	Go	8	..	19392b	93	781	1.7	-71 42	8.6	8.6	Ao	2	..	22988b
44	7703	1.5	-24 21	9.2	10.3	F8	1	..	24494b	94	1694	1.8	+28 23	8.3	9.3	Ko	2	..	38173i
45	6727	1.5	-26 56	7.9	9.6	G5	4	..	24494b	95	1940	1.8	+10 3	7.52	8.52	Ko	3	..	38283i
46	6240	1.5	-27 41	8.3	9.9	Ko	3	..	24494b	96	2145	1.8	+ 1 52	6.41	7.76	Ma	7	..	37606i
47	5567	1.5	-34 24	9.1	10.1	K5	1	..	40081b	97	2713	1.8	- 5 18	9.20	9.62	F5	2	..	19231b
48	5102	1.5	-44 39	10.0	9.6	A2	2	..	38418b	98	2683	1.8	-16 41	9.5	9.6	A2	2	..	13154b
49	4845	1.5	-46 5	10.9	10.7	Ao	1	..	38415b	99	2792	1.8	-21 6	8.8	9.6	A2	2	..	13144b
50	4103	1.5	-50 1	10.5	9.6	A2	3	..	38415b	100	6048	1.8	-32 26	9.3	9.0	A5	3	..	40081b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

78200

9^h 1^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5573	1.8	-34 8	7.9	8.3	Ao	6	..	40081b	51	1901	2.1	+26 1	6.80	6.94	A5	5	5.5	3863oi
2	4891	1.8	-40 18	8.4	8.9	Ko	3	..	39925b	52	2049	2.1	+22 51	7.94	8.28	F2	5	..	37607i
3	4850	1.8	-45 57	9.6	9.3	A5	3	..	38415b	53	2030	2.1	+14 26	9.4	10.5	K2	2	..	5396m
4	3813	1.8	-50 29	10.2	10.5	K2	1	..	38415b	54	2078	2.1	+7 14	7.9	7.9	Ao	4	..	37606i
5	3478	1.8	-51 34	8.5	8.7	B9	3	..	40275b	55	2144	2.1	+2 59	6.56	6.90	F2	8	..	37606i
6	1370	1.8	-58 46	8.6	8.5	B8	4	..	41151b	56	2693	2.1	-21 31	9.2	10.2	K	1	..	13144b
7	558	1.8	-77 1	9.4	9.9	F8	3	..	21453b	57	8058	2.1	-23 45	8.01	8.0	F2	5	..	13144b
8	597	1.9	+66 14	8.6	8.7	A3	4	..	37517i	58	6914	2.1	-31 11	7.7	8.4	Ao	6	..	18927b
9	1365	1.9	+52 0	4.54	4.62	A3p	..	R	56,86	59	5240	2.1	-38 10	10.9	9.7	Ao	2	..	39925b
10	1808	1.9	+49 43	9.22	10.00	G5	1	..	3824oi	60	5160	2.1	-39 30	9.8	9.5	Go	1	..	39925b
11	1969	1.9	+42 35	8.7	9.5	G5	4	..	38639i	61	4957	2.1	-42 15	10.2	10.0	G5	1	..	38418b
12	1922	1.9	+41 33	8.7	9.9	K5	3	..	38639i	62	4959	2.1	-43 2	9.4	8.8	Ao	4	..	38418b
13	2013	1.9	+17 0	9.2	10.6	Ma	2	..	5396m	63	4924	2.1	-43 48	9.6	9.5	Fo	3	..	38418b
14	2205	1.9	-1 55	9.9	10.4	F8	3	..	19392b	64	5114	2.1	-44 43	9.6	8.7	A2	3	..	38418b
15	2741	1.9	-9 53	8.2	9.3	K2	3	..	18995b	65	5115	2.1	-44 46	8.8	8.0	Ao	6	..	38418b
16	2548	1.9	-11 27	9.5	10.1	Go	1	..	18995b	66	4902	2.1	-47 2	10.5	10.0	A2	3	..	38415b
17	2573	1.9	-18 53	8.7	9.8	K2	2	..	13154b	67	4645	2.1	-47 20	9.4	9.5	F8	2	..	38415b
18	2692	1.9	-21 59	8.1	9.2	Ao	3	..	13144b	68	4646	2.1	-47 44	9.8	9.8	Ao	3	..	38415b
19	2497	1.9	-22 31	8.6	9.5	Ao	2	..	13144b	69	4110	2.1	-49 40	9.2	9.6	G5	2	..	38415b
20	6731	1.9	-26 20	9.2	10.1	B9	4	R	24494b	70	2102	2.1	-53 51	9.6	9.7	A3	1	..	40275b
21	7184	1.9	-30 29	9.1	8.5	Ao	3	..	18927b	71	1997	2.1	-56 20	8.5	9.1	Ko	2	..	41151b
22	7187	1.9	-30 36	9.5	8.7	Ao	2	..	18927b	72	1170	2.1	-61 43	10.5	10.5	Ao	1	..	40096b
23	7189	1.9	-31 3	9.1	9.3	K2	1	..	18927b	73	1070	2.1	-65 31	9.1	9.5	F5	3	..	21452b
24	5357	1.9	-35 42	7.29	8.7	K2	4	..	13055b	74	557	2.2	+67 52	8.1	8.5	F5	5	..	37517i
25	5235	1.9	-38 15	9.0	9.5	Ko	2	..	13055b	75	1916	2.2	+36 43	7.45	7.79	F2	6	..	37345i
26	5112	1.9	-44 40	9.4	8.9	A2	4	..	38418b	76	1818	2.2	+30 38	8.5	9.5	Ko	1	..	3863oi
27	4108	1.9	-49 28	10.0	9.3	Ao	4	..	38415b	77	1696	2.2	+27 58	7.9	8.7	G5	3	..	38173i
28	3479	1.9	-51 17	9.6	9.6	A5	2	..	38415b	78	..	2.2	+21 58	..	..	R5	..	..	M
29	1914	1.9	-52 42	8.6	8.7	Ao	6	..	40275b	79	2044	2.2	+13 7	9.4	10.4	Ko	3	..	5396m
30	1371	1.9	-58 25	8.5	9.7	Ko	1	..	41151b	80	1971	2.2	+11 50	9.6	10.6	Ko	1	..	38283i
31	1305	1.9	-60 10	7.95	9.1	K2	3	..	41151b	81	2107	2.2	+6 43	8.5	9.9	Mb	..	..	M
32	993	1.9	-64 17	7.2	7.2	B9	9	..	21452b	82	2237	2.2	+0 59	7.6	7.6	Ao	7	..	37606i
33	1485	2.0	+51 12	8.1	8.9	G5	3	..	3824oi	83	2577	2.2	-3 33	8.7	9.3	Go	4	..	19392b
34	1810	2.0	+32 57	6.33	6.67	F2	7	..	37345i	84	2721	2.2	-7 24	8.5	9.7	K5	2	..	19226b
35	1817	2.0	+30 3	5.38	6.16	G5	8	5,7 R	3865oi	85	6257	2.2	-27 34	8.2	9.5	Ko	3	..	24494b
36	1973	2.0	+21 24	9.1	10.1	Ko	1	..	37607i	86	5353	2.2	-36 45	9.0	9.2	G5	3	0.2	39925b
37	2544	2.0	-4 41	8.8	9.8	Ko	2	..	19231b	87	5241	2.2	-38 29	9.1	8.6	A2	4	..	13055b
38	2821	2.0	-7 8	9.2	9.3	A2	3	..	19226b	88	5161	2.2	-39 22	9.3	9.7	Ko	1	..	39925b
39	2684	2.0	-16 29	9.0	9.3	Fo	3	..	13154b	89	5118	2.2	-44 19	10.2	10.4	Ko	1	..	38418b
40	7713	2.0	-25 0	8.70	8.3	Ao	6	..	13144b	90	4111	2.2	-49 53	7.40	7.8	B8	9	..	38415b
41	5454	2.0	-37 51	8.5	8.6	Fo	6	..	13055b	91	1916	2.2	-52 49	8.3	8.7	B5	4	..	40275b
42	4921	2.0	-43 13	9.2	8.7	Fo	4	..	38418b	92	2011	2.2	-54 50	8.5	9.2	K2	4	3.1	40275b
43	4644	2.0	-47 15	8.6	10.0	K2	2	..	38415b	93	1859	2.2	-57 27	6.50	7.4	A3	6	..	42241b
44	4411	2.0	-48 38	9.2	9.0	B9	4	..	38415b	94	1071	2.2	-66 0	9.9	9.9	Ao	2	..	21452b
45	4109	2.0	-49 52	9.1	9.1	Fo	5	..	38415b	95	470	2.2	-78 1	9.3	10.1	G5	3	..	21453b
46	3814	2.0	-50 24	10.9	10.2	Ao	1	..	38415b	96	825	2.3	+62 51	7.9	8.0	A5	5	0.5	37517i
47	1169	2.0	-61 30	9.9	10.2	F2	2	..	40096b	97	1172	2.3	+60 35	8.7	9.5	G5	2	..	37705i
48	966	2.0	-66 50	9.2	10.0	G5	2	..	21452b	98	1683	2.3	+45 48	8.7	9.9	K5	1	..	38639i
49	1221	2.1	+59 32	7.20	8.20	Ko	5	..	37705i	99	1819	2.3	+30 43	8.3	9.3	Ko	2	..	3863oi
50	1809	2.1	+49 43	7.72	8.72	Ko	4	..	3824oi	100	1983	2.3	+15 4	9.4	10.2	G5	4	5.2	5396m

THE HENRY DRAPER CATALOGUE.

78300

9^h 2^m 3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2165	2.3	+ 7 53	8.1	8.5	F5	3	0,3	38198i	51	5754	2.6	-33 10	8.0	9.0	G5	3	..	40081b
2	2751	2.3	-17 48	6.75	7.75	Ko	8	..	13154b	52	4814	2.6	-41 33	8.7	9.1	Ao	3	..	38418b
3	5242	2.3	-38 44	10.2	10.3	Ko	1	..	39925b	53	4813	2.6	-41 46	8.7	9.7	K5	1	..	38418b
4	5120	2.3	-44 34	10.9	10.1	A	1	..	38418b	54	4653	2.6	-47 15	8.9	8.7	B9	6	..	38415b
5	5121	2.3	-45 4	9.79	9.3	A2	3	..	38418b	55	4420	2.6	-48 50	7.5	9.3	Ko	3	..	38415b
6	4648	2.3	-47 8	9.2	8.4	Ao	5	..	38415b	56	4421	2.6	-48 59	10.5	9.9	A2	2	..	38415b
7	4418	2.3	-48 23	10.0	9.3	Ao	3	..	38415b	57	3829	2.6	-50 10	9.6	10.1	B8	2	..	38415b
8	4417	2.3	-48 51	8.5	9.0	Fo	4	..	38415b	58	3831	2.6	-51 4	8.5	8.7	Ao	6	..	38415b
9	3483	2.3	-51 29	9.4	9.7	A2	1	..	40275b	59	2015	2.6	-55 5	8.44	9.1	Ko	1	..	41151b
10	1171	2.3	-61 52	10.6	10.6	B9	1	..	40096b	60	858	2.6	-70 12	6.90	6.9	Fo	8	..	24527b
11	968	2.3	-66 41	9.1	9.7	Go	2	..	21452b	61	509	2.7	+69 27	8.7	8.8	A2	7	..	37706i
12	555	2.3	-73 48	7.9	7.9	Ao	2	..	24452b	62	723	2.7	+63 55	4.74	5.16	F5	..	R	2321c
13	1316	2.4	+55 18	9.3	9.9	G	1	..	37705i	63	723	2.7	+63 55	4.74	5.16	A5	..	R	2321c
14	1832	2.4	+44 26	8.9	9.7	G5	2	..	38639i	64	1223	2.7	+59 40	8.21	8.63	F5	3	..	37705i
15	2032	2.4	+14 5	9.4	9.9	F8	3	..	5396m	65	1318	2.7	+55 37	9.0	9.4	F5	2	..	37705i
16	1984	2.4	+11 4	5.14	5.09	B8	..	I, R	56,86	66	1949	2.7	+34 18	5.95	6.45	F8	8	..	37345i
17	2461	2.4	+ 0 29	7.7	8.2	F8	2	..	37606i	67	2546	2.7	- 4 52	8.4	9.4	Ko	4	..	19231b
18	2800	2.4	-12 55	6.95	7.23	Fo	9	..	18995b	68	2751	2.7	-15 7	9.5	10.1	Go	3	..	46198b
19	2752	2.4	-17 28	9.2	9.3	A2	2	..	13154b	69	6736	2.7	-26 56	8.5	9.8	Ko	2	..	24494b
20	2498	2.4	-22 56	8.4	9.0	F5	3	..	13144b	70	5755	2.7	-33 52	8.8	9.0	F5	2	..	40081b
21	6733	2.4	-26 32	8.9	9.9	Ko	3	..	24494b	71	5251	2.7	-38 42	10.7	10.4	Ko	1	..	39925b
22	6259	2.4	-27 9	9.2	10.3	Ko	1	..	24494b	72	5175	2.7	-39 36	9.4	9.7	G5	1	..	39925b
23	5355	2.4	-36 24	8.4	8.3	Ao	7	..	13055b	73	1073	2.7	-66 5	8.7	9.7	Ko	3	..	21452b
24	5123	2.4	-44 38	10.5	10.1	A	1	..	38418b	74	365	2.8	+75 41	7.67	8.45	G5	6	..	37714i
25	4855	2.4	-45 12	10.5	10.4	A2	1	..	38418b	75	391	2.8	+74 12	9.8	9.9	A5	2	..	37714i
26	4114	2.4	-49 45	7.8	7.9	Ao	8	..	38415b	76	1973	2.8	+12 21	7.36	8.36	Ko	3	..	38283i
27	1937	2.4	-55 38	8.9	8.8	B9	3	..	41151b	77	2124	2.8	+ 9 17	8.9	9.3	F5	1	..	38198i
28	1376	2.4	-58 22	8.6	9.1	A3	2	..	41151b	78	2752	2.8	-14 42	9.9	10.5	Go	2	..	46198b
29	205	2.4	-82 17	9.3	9.7	F5	1	..	20869b	79	2622	2.8	-19 57	8.7	9.0	Fo	3	..	13144b
30	1810	2.5	+49 21	8.7	8.8	A2	3	..	38240i	80	5255	2.8	-38 10	8.4	8.3	Ko	3	..	13055b
31	1945	2.5	+35 45	8.0	9.1	K2	1	..	37345i	81	5254	2.8	-38 38	10.2	9.7	Fo	3	..	39925b
32	1937	2.5	+31 1	8.5	9.5	Ko	1	..	38630i	82	4920	2.8	-41 1	9.0	8.5	A3	4	..	38418b
33	2794	2.5	- 2 41	9.0	9.1	A2	4	..	19392b	83	4817	2.8	-41 36	8.7	9.2	G5	3	..	38418b
34	2579	2.5	- 4 4	9.0	9.6	Go	3	..	19392b	84	4934	2.8	-43 28	10.2	9.8	G5	2	..	38418b
35	2746	2.5	-10 20	8.21	9.28	K2	4	..	18995b	85	4913	2.8	-46 11	9.4	9.2	A2	3	..	38415b
36	2703	2.5	-15 16	9.11	10.11	Ko	1	..	13154b	86	4118	2.8	-49 18	10.0	9.6	Go	2	..	38415b
37	5356	2.5	-36 13	10.9	10.4	Ao	1	..	39925b	87	1379	2.8	-58 32	8.4	8.6	A5	4	..	41151b
38	5357	2.5	-36 59	8.7	8.7	A2	4	..	13055b	88	1614	2.9	+50 14	7.62	7.96	F2	5	..	38240i
39	5170	2.5	-39 52	10.0	10.0	Go	1	..	39925b	89	1978	2.9	+21 46	9.5	10.1	G	2	..	37607i
40	4916	2.5	-40 19	9.6	9.9	Ko	1	..	39925b	90	1985	2.9	+14 55	9.6	9.7	A2	4	..	5396m
41	5125	2.5	-45 2	8.59	8.0	A2	5	..	38418b	91	2825	2.9	- 6 44	8.4	9.0	Go	5	0,6	19231b
42	4857	2.5	-45 40	9.6	9.3	Ao	3	..	38415b	92	2746	2.9	-10 6	7.71	7.71	Ao	9	..	18995b
43	4911	2.5	-46 52	10.5	10.4	Ao	2	..	38415b	93	2552	2.9	-11 58	9.5	9.8	F2	2	..	18995b
44	4650	2.5	-47 22	9.0	10.0	B	3	..	38415b	94	2802	2.9	-12 17	8.8	9.1	F2	4	..	18995b
45	4654	2.5	-47 55	9.6	10.1	B	1	..	38415b	95	2769	2.9	-14 3	9.1	9.5	F5	5	..	18995b
46	1030	2.5	-67 14	8.3	8.6	F2	7	..	21452b	96	7729	2.9	-24 45	8.7	9.5	G5	2	..	24494b
47	1984	2.6	+15 7	7.48	8.48	Ko	4	2,7	37607i	97	5258	2.9	-38 58	9.8	9.7	B9	3	..	39925b
48	2033	2.6	+14 26	7.69	8.87	K5	3	0,7	38283i	98	4936	2.9	-43 13	10.2	10.4	F2	1	..	38418b
49	2725	2.6	- 7 13	8.4	8.4	Ao	6	..	19226b	99	5130	2.9	-44 42	9.8	9.3	B8	3	..	38418b
50	6930	2.6	-28 54	7.7	8.6	F5	5	..	24494b	100	4658	2.9	-47 47	9.4	8.6	Ao	4	..	38415b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

78400

9^h 2^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4424	2.9	-48 14	8.8	8.7	Ao	4	..	38415b	51	2019	3.2	+16 49	9.2	10.0	G5	3	..	5396m
2	4423	2.9	-48 41	10.0	10.2	Ko	1	..	38415b	52	2149	3.2	+ 3 34	9.2	9.8	G	2	..	37606i
3	4120	2.9	-49 14	10.2	9.7	Go	2	..	38415b	53	2557	3.2	-11 55	8.7	8.7	B9	5	..	18995b
4	3835	2.9	-50 56	10.5	9.9	Ao	1	..	38415b	54	5760	3.2	-33 17	8.4	8.1	Ao	7	..	40081b
5	1924	2.9	-52 24	8.4	8.7	B8	7	..	40275b	55	5381	3.2	-35 57	9.0	8.9	Ao	4	..	13055b
6	1945	2.9	-55 20	8.8	8.8	Ao	3	1,2	40275b	56	5471	3.2	-37 42	9.4	10.1	G5	1	..	39925b
7	1164	2.9	-62 23	9.2	9.5	F2	3	..	40096b	57	4970	3.2	-42 48	9.8	9.7	Go	1	..	38418b
8	1163	2.9	-63 2	9.1	9.1	Ao	3	..	21452b	58	4919	3.2	-46 47	9.6	9.5	Ao	4	..	38415b
9	996	2.9	-64 56	8.9	9.5	Go	3	..	21452b	59	4662	3.2	-47 31	7.9	7.8	B9	7	..	38415b
10	1074	2.9	-65 27	9.6	9.7	A2	1	..	21452b	60	1260	3.2	-59 7	8.4	8.2	A3	4	..	41151b
11	885	2.9	-68 46	9.6	10.8	K5	1	..	21452b	61	557	3.2	-74 33	9.8	9.8	Ao	2	..	21453b
12	775	2.9	-72 54	8.6	8.7	A2	2	..	22988b	62	1686	3.3	+44 53	8.97	9.39	F5	2	..	38639i
13	1319	3.0	+55 22	7.9	8.3	F5	6	..	37705i	63	2020	3.3	+17 38	8.5	8.9	F5	3	..	37607i
14	1321	3.0	+55 7	9.3	9.3	A	1	..	37705i	64	2208	3.3	- 1 16	8.9	10.1	K5	2	..	19392b
15	1370	3.0	+51 50	9.1	10.1	Ko	1	..	38240i	65	2581	3.3	- 3 53	9.7	10.3	Go	1	..	19392b
16	1729	3.0	+48 33	9.1	9.9	G5	1	..	38240i	66	2499	3.3	-23 0	9.0	10.1	G5	1	..	13144b
17	2003	3.0	+38 26	10.0	10.1	A2	1	..	37345i	67	7143	3.3	-29 42	7.6	8.1	G5	7	..	24494b
18	1715	3.0	+27 3	5.96	6.74	G5	8	0,7 R	38630i	68	6071	3.3	-32 45	9.4	9.6	Ko	1	..	18927b
19	2018	3.0	+17 5	7.9	8.9	Ko	4	0,7	37607i	69	5263	3.3	-39 6	8.0	9.1	Ko	3	..	39925b
20	2045	3.0	+13 37	9.2	10.6	Mc	3	..	5396m	70	4929	3.3	-40 6	10.7	9.7	A2	1	..	39925b
21	2207	3.0	- 2 5	7.12	7.90	G5	8	0,4	19392b	71	4973	3.3	-42 16	10.5	10.3	Ao	1	..	38418b
22	2726	3.0	- 7 25	7.9	8.2	Fo	9	..	19231b	72	4867	3.3	-45 51	9.6	9.5	Ao	3	..	38415b
23	2747	3.0	- 9 27	7.78	7.78	Ao	8	..	18995b	73	4868	3.3	-46 1	9.6	9.3	A3	3	..	38415b
24	2554	3.0	-11 37	7.29	8.47	K5	6	..	18995b	74	4431	3.3	-49 3	10.0	10.5	Ko	1	..	38415b
25	2578	3.0	-18 19	9.2	10.2	Ko	1	..	13154b	75	4122	3.3	-49 59	10.5	10.2	G5	1	..	38415b
26	5598	3.0	-34 24	8.4	9.2	F5	3	E	18927b	76	561	3.3	-77 3	9.3	9.9	Go	3	..	21453b
27	5365	3.0	-36 55	9.0	9.6	K5	1	..	13055b	77	2164	3.4	+40 34	7.9	9.1	K5	2	..	37459i
28	5364	3.0	-37 5	9.8	9.5	A2	2	..	13055b	78	2043	3.4	+23 54	8.8	8.8	Ao	2	..	37607i
29	4968	3.0	-43 6	7.7	7.6	Go	7	..	38418b	79	2129	3.4	+17 52	7.35	8.35	Ko	5	..	37607i
30	4939	3.0	-43 37	10.5	10.5	Fo	1	..	38418b	80	2125	3.4	+ 8 56	9.4	10.0	G	1	..	38198i
31	4427	3.0	-48 13	10.2	9.6	Ao	3	..	38415b	81	6272	3.4	-27 36	9.9	10.4	Ao	1	..	24494b
32	4426	3.0	-48 18	10.9	10.5	G	1	..	38415b	82	6946	3.4	-28 36	9.1	9.8	Ao	2	..	24494b
33	1928	3.0	-52 33	8.9	9.6	F8	2	..	40275b	83	5605	3.4	-34 21	11.4	9.5	A	1	E	18927b
34	2018	3.0	-54 38	8.1	9.1	K2	5	2,2	40275b	84	5266	3.4	-38 25	7.36	8.2	K2	5	..	13055b
35	886	3.0	-68 50	8.5	8.6	A2	5	..	21452b	85	4870	3.4	-45 16	9.2	10.1	Ko	1	..	38418b
36	557	3.0	-75 55	9.6	10.6	Ko	2	..	21453b	86	3839	3.4	-50 39	10.2	9.6	Ao	3	..	38415b
37	243	3.1	+83 2	8.5	9.0	F8	5	..	37546i	87	1166	3.4	-62 26	9.7	10.3	Go	1	..	40096b
38	8071	3.1	-23 38	9.4	8.6	A2	3	..	13144b	88	1314	3.5	+53 28	10.0	10.1	A2	2	..	38650i
39	7208	3.1	-30 43	9.5	9.3	A2	2	..	18927b	89	1920	3.5	+36 47	8.9	9.3	F5	1	..	37345i
40	6929	3.1	-31 31	8.1	8.4	G5	4	..	18927b	90	1815	3.5	+33 48	8.7	9.7	Ko	2	..	37345i
41	5601	3.1	-34 6	7.8	7.8	Ao	8	..	18927b	91	2047	3.5	+13 30	10.6	10.7	A3	2	..	5396m
42	5367	3.1	-36 14	9.4	9.6	G5	2	..	39925b	92	2727	3.5	- 5 14	9.35	9.43	A3	7	..	19231b
43	4660	3.1	-47 13	10.2	10.1	Ao	4	..	38415b	93	2749	3.5	-10 4	9.26	10.26	K	1	..	18995b
44	2019	3.1	-54 30	8.5	8.8	Ao	6	0,3	40275b	94	2559	3.5	-11 32	8.0	9.1	K2	6	..	18995b
45	1172	3.1	-61 26	7.6	8.6	K5	4	..	13026b	95	2710	3.5	-16 6	8.8	9.8	Ko	2	..	13154b
46	1088	3.1	-63 53	8.1	9.1	Ko	5	..	21452b	96	2757	3.5	-17 28	8.7	9.8	K2	3	..	13154b
47	560	3.1	-76 7	10.7	10.7	A	1	..	21453b	97	2755	3.5	-17 41	9.2	10.2	Ko	1	..	13154b
48	510	3.2	+69 29	8.9	9.7	G5	4	..	37706i	98	2625	3.5	-19 22	9.1	10.1	Ko	1	..	13154b
49	1371	3.2	+52 48	8.1	8.2	A5	4	..	38240i	99	7746	3.5	-24 49	10.4	9.8	Ao	2	..	24494b
50	1645	3.2	+47 25	8.1	8.4	F2	4	..	38240i	100	6274	3.5	-27 47	7.58	8.6	G5	5	..	24494b

THE HENRY DRAPER CATALOGUE.

78500

9^h 3^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	4978	3.5	-42 30	9.4	9.5	F8	1	..	38418b	51	971	3.7	-66 48	9.5	9.5	Ao	2	..	21452b
2	4951	3.5	-43 19	9.6	10.5	Ko	1	..	38418b	52	473	3.7	-78 5	9.4	10.4	Ko	2	..	21453b
3	4871	3.5	-45 28	9.6	9.3	Ao	3	0,3	38415b	53	1845	3.8	+32 32	8.5	9.5	Ko	1	..	37345i
4	4432	3.5	-48 11	10.2	10.2	Ao	1	..	38415b	54	2109	3.8	+6 0	7.9	8.7	G5	3	..	37606i
5	1933	3.5	-52 38	8.0	9.3	K2	2	..	40275b	55	2551	3.8	-4 50	9.0	9.1	A2	4	..	19231b
6	1932	3.5	-52 52	8.3	8.4	B9	4	..	40275b	56	2588	3.8	-8 11	5.50	5.45	B8	..	..	56,86
7	1174	3.5	-61 42	8.2	8.2	B8	5	..	13026b	57	2589	3.8	-8 59	7.9	8.7	G5	4	..	18995b
8	1031	3.5	-67 19	9.4	9.4	Ao	3	..	21452b	58	2757	3.8	-14 44	7.26	7.82	Go	7	..	13154b
9	562	3.5	-76 30	8.6	9.0	F5	7	..	21453b	59	2690	3.8	-16 29	8.6	9.6	Ko	2	..	13154b
10	408	3.5	-78 30	9.5	10.1	Go	3	..	21453b	60	8082	3.8	-23 33	8.9	10.1	Ko	1	..	13144b
11	551	3.6	+70 7	9.3	9.9	G	2	..	37706i	61	6279	3.8	-27 21	7.7	9.3	Ao	4	..	24494b
12	1885	3.6	+43 21	8.3	8.4	A5	4	..	38639i	62	5612	3.8	-34 54	10.0	9.5	Ao	1	..	18927b
13	1941	3.6	+31 7	7.71	7.85	A5	3	0,3	38630i	63	5479	3.8	-37 40	10.0	10.0	Ao	1	..	39925b
14	1902	3.6	+26 14	8.7	9.7	Ko	2	..	38630i	64	5192	3.8	-39 26	7.6	7.6	A2	5	..	39925b
15	2061	3.6	+22 27	5.22	6.00	G5	10	R	37607i	65	4438	3.8	-48 48	10.2	9.9	A2	2	..	38415b
16	2587	3.6	-8 30	9.2	10.0	G5	2	..	19231b	66	3847	3.8	-50 24	9.8	10.1	Ao	1	..	38415b
17	2560	3.6	-11 37	8.5	8.6	A5	8	..	18995b	67	3845	3.8	-50 38	9.4	9.3	B9	4	..	38415b
18	2701	3.6	-21 40	8.8	9.5	Ao	2	..	13144b	68	1386	3.8	-58 48	7.9	7.6	B9	3	..	42241b
19	7748	3.6	-24 33	9.4	10.1	Ko	1	..	24494b	69	1091	3.8	-63 41	9.1	9.7	Go	2	..	21452b
20	6948	3.6	-28 11	7.77	9.0	K2	4	..	24494b	70	1000	3.8	-64 33	8.4	9.4	Ko	3	..	21452b
21	7152	3.6	-29 34	9.2	9.3	G5	2	..	24494b	71	1204	3.9	+57 17	9.1	9.4	F	2	..	37705i
22	6939	3.6	-31 38	8.0	9.0	K5	4	..	18927b	72	1836	3.9	+44 36	8.6	8.7	A5	3	R	38639i
23	6936	3.6	-31 52	8.5	8.1	A2	6	..	18927b	73	1949	3.9	+35 49	8.0	8.1	A5	6	..	37345i
24	6079	3.6	-32 8	8.4	9.3	Ko	3	..	18927b	74	1911	3.9	+16 13	9.2	10.2	Ko	4	..	5396m
25	5387	3.6	-35 58	10.0	10.4	K2	1	..	39925b	75	2132	3.9	-0 19	9.18	9.74	Go	1	..	19392b
26	4979	3.6	-42 24	9.4	9.9	Ko	1	..	38418b	76	2133	3.9	-0 43	9.2	9.8	Go	2	..	19392b
27	4873	3.6	-45 37	8.9	8.9	Ao	4	..	38415b	77	2503	3.9	-22 40	8.0	10.1	Ko	2	..	13144b
28	4126	3.6	-49 14	9.6	9.9	K5	2	..	38415b	78	2502	3.9	-22 56	8.4	9.5	Fo	3	..	13144b
29	1937	3.6	-52 8	7.9	8.8	Ko	4	..	40275b	79	7755	3.9	-25 0	9.4	9.9	Ao	3	..	24494b
30	2122	3.6	-53 41	8.7	8.5	Ao	6	..	40275b	80	4925	3.9	-46 43	10.0	9.8	Ao	3	..	38415b
31	1262	3.6	-59 8	8.4	9.8	K5	1	..	41151b	81	4666	3.9	-47 28	9.6	9.0	A2	4	..	38415b
32	1051	3.7	+62 47	8.9	9.9	Ko	1	..	37517i	82	4667	3.9	-48 2	9.0	8.4	Ao	4	..	38415b
33	1986	3.7	+15 39	8.5	8.9	F5	6	0,4	5396m	83	2128	3.9	-53 55	9.6	9.7	A5	1	..	40275b
34	1988	3.7	+11 13	8.9	9.7	G5	1	..	38283i	84	300	4.0	+79 42	8.05	7.88	B3	5	..	37714i
35	2172	3.7	+7 55	7.09	8.09	Ko	5	0,4	38198i	85	2053a	4.0	+25 39	var.	var.	Md	..	R	56,201
36	2126	3.7	+4 21	8.5	9.0	F8	3	..	37606i	86	1912	4.0	+16 44	10.2	10.8	G	2	..	5396m
37	2131	3.7	-0 22	8.3	8.8	F8	7	0,3	19392b	87	1988	4.0	+15 36	9.2	10.6	Ma	2	..	5396m
38	2549	3.7	-4 43	8.0	8.8	G5	6	..	19231b	88	2731	4.0	-5 20	9.05	9.11	A2	3	..	19231b
39	2770	3.7	-13 45	8.6	9.6	Ko	2	..	18995b	89	2691	4.0	-16 51	8.6	9.7	K2	2	..	13154b
40	2755	3.7	-14 59	9.7	10.5	G5	2	..	46198b	90	6285	4.0	-28 5	8.5	9.7	Ao	6	..	24494b
41	6895	3.7	-25 27	4.82	7.5	K5	7	R	11015b	91	7159	4.0	-29 32	10.4	9.7	Ao	1	..	24494b
42	6752	3.7	-26 54	7.9	9.9	Ma	2	..	24494b	92	7223	4.0	-30 42	8.9	9.3	A3	2	..	18927b
43	5766	3.7	-33 43	7.8	8.4	F2	7	..	18927b	93	5769	4.0	-33 52	8.0	9.6	K5	2	..	18927b
44	5379	3.7	-36 6	10.0	10.1	F8	1	..	39925b	94	4831	4.0	-41 32	9.0	9.2	Ao	4	..	38418b
45	5477	3.7	-37 27	10.7	10.1	A3	1	..	39925b	95	4957	4.0	-43 45	9.0	10.1	K5	1	..	38418b
46	4980	3.7	-42 6	10.5	10.0	Ao	1	..	38418b	96	4958	4.0	-43 51	10.5	10.1	F8	1	..	38418b
47	4952	3.7	-43 33	8.9	9.0	A3	5	..	38418b	97	4926	4.0	-46 28	10.0	9.8	Ao	3	..	38415b
48	1957	3.7	-55 24	6.22	6.10	B5	5	4,6	42951b	98	4134	4.0	-49 24	11.5	10.2	Ao	1	..	38415b
49	1385	3.7	-58 40	8.7	9.1	G5	2	..	41151b	99	3849	4.0	-50 49	6.47	8.7	K5	7	5,7	40275b
50	1176	3.7	-61 43	9.1	10.6	G5	1	..	40096b	100	..	4.0	-64 51	..	..	K5	1	..	21452b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

78600

9^h 4^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	973	4.0	-66 13	8.8	9.4	Go	4	..	21452b	51	4135	4.3	-49 40	10.5	10.2	Ao	1	..	38415b
2	1034	4.0	-67 42	7.7	8.9	K5	6	..	21452b	52	4136	4.3	-49 53	10.9	10.2	Ao	2	..	38415b
3	1005	4.0	-69 12	8.6	8.9	F2	5	..	21452b	53	3854	4.3	-50 44	9.2	10.2	Ko	1	..	38415b
4	1006	4.0	-70 3	10.1	10.2	A2	2	..	21452b	54	3506	4.3	-52 6	9.8	9.4	Ao	2	..	40275b
5	265	4.1	+82 45	9.0	9.3	Fo	3	..	37546i	55	1036	4.3	-67 33	9.1	9.1	B9	4	..	21452b
6	1487	4.1	+51 43	9.5	10.1	G	1	..	38240i	56	554	4.4	+70 21	7.68	8.46	G5	4	..	37706i
7	1822	4.1	+29 57	8.31	9.49	K5	1	..	38630i	57	579	4.4	+67 42	9.3	9.4	A2	3	..	37517i
8	1913	4.1	+16 30	9.0	9.1	A2	6	..	5396m	58	2170	4.4	+19 21	8.7	9.3	G	3	..	37607i
9	2048	4.1	+13 45	8.3	8.9	Go	5	0,2	5396m	59	1989	4.4	+15 46	9.9	11.0	K2	2	..	5396m
10	2209	4.1	-1 11	7.9	9.1	K5	6	5,3	19392b	60	1990	4.4	+14 52	8.44	9.22	G5	6	5,3	5396m
11	2732	4.1	-5 34	8.7	8.8	A3	7	..	19231b	61	1979	4.4	+11 58	6.46	6.74	Fo	7	..	38283i
12	2754	4.1	-10 21	7.31	7.87	Go	9	..	18995b	62	1990	4.4	+10 53	8.3	8.7	F5	2	..	38283i
13	2771	4.1	-13 58	9.7	10.1	F5	1	..	18995b	63	2465	4.4	+0 1	8.5	9.3	G5	3	..	37606i
14	2712	4.1	-15 52	6.58	7.58	Ko	8	..	13154b	64	2138	4.4	-0 42	8.3	9.4	K2	4	..	19392b
15	7163	4.1	-29 52	8.5	8.1	B9	5	..	24494b	65	2753	4.4	-9 18	9.0	9.3	F	1	..	18995b
16	5150	4.1	-44 14	7.0	8.6	B5	3	0,9	4947b	66	2752	4.4	-9 36	9.7	9.7	Ao	2	..	18995b
17	4930	4.1	-46 53	10.5	10.9	Go	1	..	38415b	67	2757	4.4	-11 10	8.6	8.7	A2	6	..	18995b
18	4669	4.1	-47 28	9.4	9.6	G5	3	..	38415b	68	2565	4.4	-11 57	5.81	6.81	Ko	7	..	21367b
19	3851	4.1	-50 23	10.0	9.6	A2	2	..	38415b	69	2808	4.4	-12 45	9.2	10.2	K	1	..	18995b
20	1035	4.1	-67 24	9.0	10.2	K5	1	..	21452b	70	2694	4.4	-16 22	8.1	8.6	F8	5	..	13154b
21	561	4.1	-73 42	8.2	9.2	Ko	2	..	22988b	71	2764	4.4	-17 18	9.2	10.3	K2	1	..	46198b
22	2055	4.2	+23 5	8.0	9.2	K5	2	..	37607i	72	2763	4.4	-17 49	8.8	9.8	Ko	2	..	13154b
23	2136	4.2	-0 50	8.9	9.2	F2	4	..	19392b	73	8089	4.4	-23 19	9.4	9.3	Fo	2	..	13144b
24	2704	4.2	-21 35	8.7	9.8	Ko	2	..	13144b	74	8092	4.4	-23 44	9.2	9.3	Go	2	0,2	13144b
25	8088	4.2	-23 29	8.9	10.2	K2	1	..	13144b	75	7764	4.4	-24 57	9.90	9.8	F5	2	..	24494b
26	5384	4.2	-36 57	7.65	6.5	Ao	8	..	13055b	76	6766	4.4	-26 22	6.20	7.3	A2	9	..	24494b
27	5202	4.2	-39 40	9.6	9.7	A2	1	..	39925b	77	6291	4.4	-27 42	9.7	9.5	Ko	3	..	24494b
28	4880	4.2	-46 4	9.4	9.6	Fo	3	..	38415b	78	7229	4.4	-30 8	8.80	9.6	K2	2	..	24494b
29	4673	4.2	-47 10	8.6	8.4	F5	6	..	38415b	79	5774	4.4	-33 17	9.1	9.7	K2	2	..	18927b
30	4676	4.2	-47 56	11.5	11.1	K2	1	..	38415b	80	4991	4.4	-42 45	9.8	9.7	F8	2	..	38418b
31	3504	4.2	-51 57	8.3	9.0	G5	3	..	40275b	81	4992	4.4	-42 56	9.2	8.6	Ao	2	..	38418b
32	1093	4.2	-64 6	6.36	8.2	Ko	8	..	21452b	82	4964	4.4	-43 49	10.9	10.1	Fo	2	..	38418b
33	444	4.3	+72 4	6.46	7.46	Ko	8	..	38602i	83	5156	4.4	-44 9	9.2	9.0	B8	3	..	38418b
34	1914	4.3	+15 52	8.5	8.6	A2	7	2,4	5396m	84	4883	4.4	-45 29	8.5	9.0	Ko	3	..	38415b
35	1945	4.3	+10 36	8.7	9.7	Ko	1	..	38283i	85	4139	4.4	-50 6	9.18	8.8	Ao	5	..	38415b
36	1944	4.3	+10 10	8.5	8.6	A2	2	..	38283i	86	3855	4.4	-50 14	8.83	9.1	Fo	5	..	38415b
37	2154	4.3	+3 21	7.7	8.0	Fo	6	..	37606i	87	3857	4.4	-50 50	11.5	10.2	A3	1	..	38415b
38	2554	4.3	-4 50	9.5	9.6	A5	2	..	19231b	88	3507	4.4	-51 30	8.6	9.6	Ko	2	..	40275b
39	2735	4.3	-7 47	8.2	8.2	B9	7	..	19231b	89	2034	4.4	-54 13	8.9	9.8	K5	1	..	40275b
40	2750	4.3	-9 44	9.2	10.2	Ko	1	..	18995b	90	1272	4.4	-59 51	7.36	7.4	B9	6	..	41151b
41	2807	4.3	-12 29	9.2	9.7	F8	2	..	18995b	91	1002	4.4	-64 47	9.2	9.2	Ao	5	..	21452b
42	2773	4.3	-13 47	7.9	8.9	Ko	7	..	18995b	92	1007	4.4	-69 16	9.2	10.3	K2	1	..	21452b
43	6905	4.3	-25 26	6.81	8.3	F8	4	2,9	11015b	93	559	4.4	-74 45	9.9	9.9	Ao	2	..	21453b
44	5387	4.3	-36 43	8.7	8.7	G5	3	..	13055b	94	411	4.4	-79 4	8.7	8.7	Ao	4	..	20869b
45	4943	4.3	-40 40	8.0	7.9	F5	6	..	38418b	95	83	4.4	-88 21	9.7	10.7	K	2	R	22578b
46	4989	4.3	-42 23	10.5	9.5	Ao	3	..	38418b	96	555	4.5	+70 23	8.48	9.26	G5	3	..	37706i
47	4990	4.3	-43 2	2.22	5.3	K5	..	R	28,203	97	2167	4.5	+40 13	7.87	8.15	Fo	4	0,3	37459i
48	4932	4.3	-46 22	9.2	8.9	B9	6	..	38415b	98	2006	4.5	+38 44	7.9	8.7	G5	2	..	37345i
49	4934	4.3	-46 48	10.5	10.1	Ao	2	..	38415b	99	2588	4.5	-3 11	9.9	10.7	G5	1	..	19392b
50	4443	4.3	-48 32	10.5	10.1	Go	1	..	38415b	100	2587	4.5	-3 19	10.4	11.4	Ko	1	..	19392b

THE HENRY DRAPER CATALOGUE.

78700

9^h 4^m 5^s

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2810	4.5	-12 47	9.5	10.5	Ko	1	..	18995b	51	2755	4.8	-9 32	7.64	8.71	K2	6	..	18995b
2	2765	4.5	-17 55	5.74	5.74	Ao	9	..	46198b	52	6966	4.8	-28 33	7.7	8.7	Go	6	..	24494b
3	6909	4.5	-26 1	9.7	10.1	Go	3	..	24494b	53	7177	4.8	-30 0	9.55	9.3	Ao	3	..	24494b
4	5403	4.5	-35 52	9.3	9.5	Ao	2	..	39925b	54	6098	4.8	-32 9	9.3	9.0	A3	4	..	18927b
5	4946	4.5	-41 1	7.2	7.5	Ko	7	..	38418b	55	6100	4.8	-32 55	9.3	9.0	A2	3	..	18927b
6	4994	4.5	-42 57	10.2	9.5	B9	1	..	38418b	56	5623	4.8	-34 57	8.04	8.7	K5	4	..	39925b
7	4965	4.5	-43 10	9.1	9.5	G5	2	..	38418b	57	5409	4.8	-35 11	10.0	9.9	Ao	2	..	39925b
8	5160	4.5	-44 44	8.9	8.1	B8	4	..	38418b	58	5396	4.8	-37 2	10.0	10.1	Ao	2	..	39925b
9	4885	4.5	-45 51	10.5	10.0	Ao	2	..	38415b	59	4941	4.8	-46 36	10.2	10.9	K	1	..	38415b
10	4938	4.5	-46 31	10.2	9.8	F8	3	..	38415b	60	1878	4.8	-58 1	8.6	9.1	F8	2	..	41151b
11	1389	4.5	-58 15	8.3	8.6	F5	3	..	41151b	61	1390	4.8	-58 45	7.7	7.9	A2	2	..	42241b
12	1946	4.6	+31 23	var.	var.	Mc	6	0.5 R	37345i	62	1182	4.8	-61 22	8.1	9.4	G5	1	..	13026b
13	1874	4.6	+29 29	8.1	8.6	F8	4	..	38630i	63	1009	4.8	-69 10	7.6	7.6	B9	8	..	21452b
14	1903	4.6	+26 49	9.1	9.6	F8	3	..	38630i	64	861	4.8	-70 8	4.86	4.69	B3p	..	R	28,203
15	2063	4.6	+22 24	6.09	6.87	G5	8	..	37607i	65	599	4.9	+66 8	7.8	8.1	Fo	6	..	37517i
16	2809	4.6	-12 26	9.0	9.5	F8	2	..	18995b	66	1055	4.9	+62 4	7.7	7.7	Ao	7	..	37517i
17	2774	4.6	-13 48	9.0	10.1	K2	1	..	18995b	67	1054	4.9	+62 3	7.7	7.7	Ao	..	..	..
18	2586	4.6	-19 1	8.0	9.0	Ko	4	..	13154b	68	1225	4.9	+59 11	7.8	8.8	Ko	3	..	37705i
19	6953	4.6	-31 23	9.7	9.3	F5	2	..	18927b	69	2168	4.9	+40 42	7.71	8.78	K2	3	..	37459i
20	5404	4.6	-35 19	8.7	9.6	Fo	3	..	39925b	70	1905	4.9	+26 33	9.5	9.5	Ao	2	..	38630i
21	5289	4.6	-38 28	9.4	8.0	B9	4	..	18436b	71	1917	4.9	+16 0	8.5	8.6	A5	6	2,3	5396m
22	4444	4.6	-48 29	10.2	10.2	G5	1	..	38415b	72	2039	4.9	+14 9	9.2	9.3	A5	3	..	5396m
23	1957	4.6	-52 46	9.1	9.6	A	1	..	40275b	73	2040	4.9	+14 3	9.2	10.2	Ko	4	..	5396m
24	2010	4.6	-57 4	6.58	7.8	G5	..	5.3	56,126	74	2049	4.9	+13 45	9.6	10.4	G5	1	R	5396m
25	1168	4.6	-62 27	7.28	7.6	B9	9	..	21452b	75	2049	4.9	+13 45	9.6	10.4	G5	1	..	5396m
26	2174	4.7	+7 55	8.1	9.1	Ko	3	..	38198i	76	1981	4.9	+12 21	8.5	8.5	Ao	2	..	38283i
27	2131	4.7	+5 37	8.3	9.3	Ko	2	..	37606i	77	2140	4.9	-0 40	8.5	8.9	F5	5	..	19392b
28	2802	4.7	-3 10	9.5	10.0	F8	2	..	19392b	78	2212	4.9	-1 56	9.9	10.0	A3	3	..	19392b
29	2589	4.7	-3 38	9.0	9.8	G5	4	..	19392b	79	2740	4.9	-7 42	9.5	10.3	G5	2	..	19231b
30	2736	4.7	-7 46	9.0	10.0	Ko	3	..	19231b	80	2775	4.9	-13 27	7.5	8.6	K2	8	..	18995b
31	2592	4.7	-8 13	8.5	9.0	F8	4	..	19231b	81	2763	4.9	-14 28	10.1	10.1	Ao	1	..	18995b
32	2593	4.7	-8 23	5.66	6.44	G5	..	..	56,86	82	6297	4.9	-27 45	8.28	9.0	Ko	4	..	24494b
33	2714	4.7	-15 12	9.21	9.77	Go	2	..	13154b	83	6971	4.9	-28 24	8.5	9.8	F8	1	..	24494b
34	2803	4.7	-20 31	7.42	8.3	Ko	5	..	13144b	84	5625	4.9	-34 54	8.0	8.2	A5	5	..	39925b
35	7771	4.7	-24 26	7.9	9.8	Mb	2	..	24494b	85	4889	4.9	-45 51	8.6	8.7	B2	3	..	38415b
36	6910	4.7	-25 13	9.7	10.4	Ko	1	..	24494b	86	4682	4.9	-47 44	8.8	9.2	Ko	4	..	38415b
37	6774	4.7	-26 38	8.9	9.5	F8	3	..	24494b	87	3868	4.9	-50 13	10.0	9.6	F2	4	..	38415b
38	6957	4.7	-31 33	9.5	9.0	A2	3	..	18927b	88	3869	4.9	-50 24	8.9	9.6	K2	4	..	38415b
39	6956	4.7	-32 3	8.3	8.7	Ko	4	..	18927b	89	2040	4.9	-54 55	8.0	8.2	Ao	5	0,7	41151b
40	5492	4.7	-37 54	10.0	10.1	G5	1	..	39925b	90	1094	4.9	-63 24	8.3	9.5	K5	2	..	21452b
41	5292	4.7	-38 22	7.32	7.5	A2	7	..	18436b	91	779	4.9	-72 12	4.50	4.92	F5	..	5, R	28,203
42	5212	4.7	-39 11	10.2	9.9	A3	1	..	39925b	92	1488	5.0	+50 52	6.59	6.59	Ao	8	..	38240i
43	4951	4.7	-40 54	9.0	8.9	Ao	5	..	38418b	93	2141	5.0	-1 7	9.2	10.0	G5	1	..	19392b
44	4969	4.7	-44 0	9.8	9.8	Ao	3	..	38418b	94	2591	5.0	-3 58	9.9	10.4	F8	1	..	19392b
45	4447	4.7	-48 42	9.2	10.2	Ko	2	..	38415b	95	2741	5.0	-8 10	9.0	10.2	K5	1	..	19231b
46	4446	4.7	-49 3	8.8	9.7	Ko	1	..	38415b	96	2506	5.0	-23 7	8.6	9.2	G5	2	..	13144b
47	4142	4.7	-50 4	8.03	8.2	F8	7	..	38415b	97	5399	5.0	-36 25	9.3	9.1	Ao	3	..	13055b
48	2038	4.7	-54 10	8.5	9.7	K2	2	..	40275b	98	5398	5.0	-37 6	10.0	11.3	Ao	1	..	39925b
49	2065	4.8	+22 3	8.0	8.3	Fo	4	..	37607i	99	5496	5.0	-37 43	10.7	10.2	A	1	..	39925b
50	2739	4.8	-8 2	8.4	9.6	K5	2	..	19231b	100	4683	5.0	-47 58	11.5	10.1	Ao	2	..	38415b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

78800

9^h 5^m 0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3870	m. 5.0	° 51 2	var.	var.	G5	6	R	38415b	51	2738	m. 5.3	° 5 45	7.56	8.56	Ko	7	..	19231b
2	1393	5.0	-58 47	7.50	7.9	A3	3	..	42241b	52	2598	5.3	-8 14	8.6	8.7	A3	4	..	19231b
3	1688	5.1	+45 13	7.52	8.52	Ko	4	0.4	38639i	53	2815	5.3	-12 43	9.1	9.4	Fo	3	..	18995b
4	2592	5.1	-3 47	9.9	10.0	Ko	1	..	19392b	54	2596	5.3	-18 15	8.8	9.8	Ko	3	..	13154b
5	2559	5.1	-4 12	9.2	10.2	Ko	2	..	19392b	55	2638	5.3	-19 13	9.5	10.1	A3	2	..	13154b
6	2507	5.1	-22 12	7.94	9.0	Ko	5	..	13144b	56	2637	5.3	-19 20	8.5	9.5	Ko	3	..	13154b
7	7779	5.1	-24 44	9.2	10.7	K2	1	..	24494b	57	6306	5.3	-28 5	8.9	9.2	A2	4	..	24494b
8	6913	5.1	-25 37	9.4	10.3	K2	1	..	24494b	58	7184	5.3	-29 41	11.4	10.8	A	1	..	24494b
9	7182	5.1	-29 45	9.7	10.8	K5	1	..	24494b	59	4963	5.3	-40 12	9.28	9.7	G5	2	..	39925b
10	5413	5.1	-35 31	9.0	9.1	Ao	3	..	39925b	60	5010	5.3	-42 56	9.0	8.3	B8	5	..	38418b
11	5304	5.1	-38 9	10.2	8.9	Ao	3	..	18436b	61	4152	5.3	-49 11	9.8	10.2	Ko	1	..	38415b
12	4957	5.1	-40 7	10.9	10.0	A2	1	..	39925b	62	4155	5.3	-49 43	9.6	9.6	G5	2	..	38415b
13	4840	5.1	-41 16	9.4	9.7	Ao	2	..	38418b	63	2017	5.3	-56 59	8.9	8.8	Ao	3	..	41151b
14	4947	5.1	-46 50	10.5	10.4	F2	2	..	38415b	64	1004	5.3	-65 5	8.8	8.8	B9	5	..	21452b
15	4452	5.1	-48 11	11.5	10.4	A	1	..	38415b	65	1208	5.4	+57 21	7.08	8.08	Ko	6	..	37705i
16	2150	5.1	-53 53	8.3	8.8	A2	6	..	40275b	66	1955	5.4	+35 7	8.5	9.7	K5	1	..	37345i
17	1078	5.1	-65 46	8.5	9.5	Ko	2	..	21452b	67	1992	5.4	+15 35	9.9	9.9	Ao	3	..	5396m
18	1037	5.1	-67 8	9.6	9.9	F	1	..	21452b	68	1993	5.4	+15 22	10.6	11.6	Ko	1	..	5396m
19	785	5.1	-71 14	10.2	10.2	Ao	2	E	21452b	69	2050	5.4	+12 57	9.2	9.7	F8	3	3,1	5396m
20	600	5.2	+66 12	7.8	8.1	F2	6	..	37517i	70	2247	5.4	+1 28	8.5	8.9	F5	5	..	37606i
21	1371	5.2	+56 43	8.8	9.8	Ko	1	..	37705i	71	2594	5.4	-3 23	8.4	8.5	A2	6	..	19392b
22	1948	5.2	+37 10	8.8	9.9	K2	1	..	37345i	72	2593	5.4	-4 5	9.2	10.3	K2	2	..	19392b
23	2041	5.2	+14 40	9.04	9.82	G5	4	5,1	5396m	73	2568	5.4	-11 58	10.4	10.5	A3	2	..	18995b
24	2472	5.2	+0 21	8.1	8.5	F5	4	..	37606i	74	2766	5.4	-14 43	8.6	8.9	Fo	4	..	13154b
25	2471	5.2	+0 7	8.1	9.3	K5	2	..	37606i	75	2722	5.4	-15 52	9.7	9.7	Ao	2	..	13154b
26	2719	5.2	-15 23	9.9	10.5	Go	2	..	46198b	76	6918	5.4	-25 24	7.18	7.7	Ao	5	0,9	11015b
27	2592	5.2	-18 38	8.8	8.9	A5	5	..	13154b	77	6786	5.4	-26 36	10.2	10.3	G5	1	..	24494b
28	5792	5.2	-33 49	10.4	10.1	A2	1	..	18927b	78	7185	5.4	-29 25	6.81	7.8	Ko	8	..	24494b
29	5627	5.2	-34 28	8.7	9.3	Ao	2	..	18927b	79	5419	5.4	-35 51	10.0	10.1	Fo	2	..	39925b
30	5417	5.2	-35 42	10.4	9.6	Ao	2	..	39925b	80	5502	5.4	-37 19	8.7	9.0	Ko	2	..	39925b
31	5416	5.2	-35 44	9.0	9.0	A2	3	..	39925b	81	5220	5.4	-39 56	10.2	9.9	A3	1	..	39925b
32	4959	5.2	-40 18	9.8	9.7	F2	2	..	39925b	82	4844	5.4	-41 8	10.7	10.0	B9	2	..	38418b
33	5167	5.2	-45 6	9.29	10.1	Ko	1	..	38418b	83	1885	5.4	-57 43	6.9	7.6	G5	2	..	42241b
34	4687	5.2	-47 16	8.5	8.4	A3	7	..	38415b	84	1318	5.4	-60 46	8.6	8.9	Fo	3	..	38748b
35	4686	5.2	-47 22	10.5	9.0	Ao	4	..	38415b	85	787	5.4	-71 21	9.1	9.5	F5	2	E	21452b
36	4685	5.2	-47 56	9.1	9.8	G5	2	..	38415b	86	1733	5.5	+48 43	9.0	9.8	G5	2	..	38240i
37	4455	5.2	-48 17	10.9	10.5	G5	1	..	38415b	87	2056	5.5	+25 49	8.7	9.7	Ko	2	..	38630i
38	3875	5.2	-50 44	10.5	9.9	A2	2	..	38415b	88	2115	5.5	+6 45	8.5	8.5	Ao	3	..	9462b
39	3521	5.2	-51 6	9.1	9.3	A2	4	..	38415b	89	2805	5.5	-3 1	7.6	7.7	A2	9	..	19392b
40	3518	5.2	-51 21	8.5	9.3	Ko	3	..	40275b	90	2816	5.5	-12 46	8.8	8.9	A3	7	..	18995b
41	1965	5.2	-52 54	9.6	9.6	A	1	..	40275b	91	2701	5.5	-16 27	7.08	7.36	Fo	8	..	13154b
42	2045	5.2	-54 42	8.3	8.5	A3	6	3,4	40275b	92	2808	5.5	-20 19	8.98	9.6	Go	1	..	18977b
43	1171	5.2	-62 36	9.0	10.0	Ko	2	2,2	21452b	93	2809	5.5	-21 1	8.2	8.6	Ao	5	..	13144b
44	1079	5.2	-65 45	8.1	9.2	K2	3	..	21452b	94	4950	5.5	-46 22	9.8	10.1	Ko	2	..	38415b
45	1011	5.2	-69 50	8.1	9.1	Ko	6	..	21452b	95	4458	5.5	-48 53	8.3	8.5	Ao	6	..	38415b
46	359	5.3	+77 29	6.88	6.88	Ao	9	..	37714i	96	2157	5.5	-53 37	9.4	9.4	Ao	3	..	40275b
47	1478	5.3	+45 55	8.5	9.0	F8	2	..	38240i	97	1886	5.5	-57 9	8.4	8.8	F8	4	..	41151b
48	1925	5.3	+36 3	9.2	9.2	Ao	1	..	37345i	98	1173	5.5	-62 29	9.3	9.4	A2	4	..	21452b
49	2171	5.3	+19 18	8.1	9.2	K2	2	..	37607i	99	1815	5.6	+49 37	7.67	8.45	G5	5	..	38240i
50	2804	5.3	-2 43	9.5	10.5	Ko	2	..	19392b	100	1994	5.6	+15 38	10.6	11.4	G5	1	..	5396m

THE HENRY DRAPER CATALOGUE.

78900

9^h 5^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2761	5.6	-11 2	9.0	10.1	K2	1	..	18995b	51	1095	5.8	-63 32	9.2	9.2	Ao	3	..	21452b
2	2570	5.6	-11 13	8.6	10.0	Ma	2	..	18995b	52	1920	5.9	+15 59	9.6	10.6	Ko	2	..	5396m
3	6974	5.6	-32 1	11.4	10.1	A	1	..	18927b	53	2600	5.9	-8 29	8.6	8.7	A3	3	..	19231b
4	5796	5.6	-33 45	10.2	9.9	A5	1	..	18927b	54	2703	5.9	-16 34	8.6	8.9	Fo	5	..	13154b
5	4969	5.6	-40 22	11.1	9.7	Ao	1	..	39925b	55	2512	5.9	-22 46	6.49	7.3	Ao	7	..	11015b
6	5014	5.6	-42 47	10.0	9.5	A2	2	..	38418b	56	4975	5.9	-40 58	9.0	8.3	Ao	4	..	38418b
7	5170	5.6	-44 58	9.04	10.7	Ma	..	..	M	57	4852	5.9	-42 6	10.4	10.3	Ao	1	..	38418b
8	4161	5.6	-49 29	10.2	10.2	A2	1	..	38415b	58	4989	5.9	-43 29	9.0	9.6	B	2	..	38418b
9	2158	5.6	-53 43	9.1	9.2	B8	3	..	40275b	59	5177	5.9	-44 10	8.2	9.0	K2	3	..	38418b
10	2048	5.6	-54 6	9.1	10.0	Ko	2	..	40275b	60	5178	5.9	-44 16	10.5	9.8	A5	2	..	38418b
11	1081	5.6	-65 20	9.1	9.9	G5	2	..	21452b	61	4956	5.9	-46 15	9.6	10.7	K2	1	..	38415b
12	1080	5.6	-65 58	9.7	9.7	Ao	2	..	21452b	62	4695	5.9	-47 19	9.4	8.7	B9	5	..	38415b
13	1038	5.6	-68 5	8.5	8.5	Ao	7	..	21452b	63	4694	5.9	-47 46	10.9	10.7	A	1	..	38415b
14	602	5.7	+66 19	8.7	8.8	A2	3	..	37517i	64	1097	5.9	-63 38	8.7	9.5	G5	1	..	40096b
15	831	5.7	+63 10	8.1	8.9	G5	3	..	37517i	65	1039	5.9	-67 50	8.6	9.1	F8	4	..	21452b
16	2216	5.7	+38 59	9.1	9.5	F5	1	..	37345i	66	1820	6.0	+33 25	9.1	9.2	A5	2	..	37345i
17	1930	5.7	+35 54	7.9	9.1	K5	3	..	37345i	67	1879	6.0	+29 17	8.1	9.1	Ko	3	..	3863oi
18	2214	5.7	-1 26	9.9	10.3	F5	1	..	19392b	68	2051	6.0	+13 17	8.5	9.6	K2	3	2,2	5396m
19	2213	5.7	-1 57	9.2	9.2	Ao	5	..	19392b	69	2133	6.0	+9 23	7.12	8.19	K2	4	..	38198i
20	2769	5.7	-14 30	7.61	7.67	A2	6	..	13154b	70	2476	6.0	+0 3	9.2	10.3	K2	2	..	19392b
21	6981	5.7	-28 21	8.5	9.5	G5	3	..	24494b	71	2143	6.0	-1 9	8.0	8.5	F8	7	..	19392b
22	7194	5.7	-29 57	5.56	6.6	A3	..	I, R	56,126	72	2725	6.0	-16 4	9.5	9.8	F2	1	..	13154b
23	6120	5.7	-32 13	9.6	9.6	Fo	2	..	18927b	73	7197	6.0	-29 20	9.2	9.3	Ao	3	..	24494b
24	5409	5.7	-36 35	9.0	10.2	K2	1	..	39925b	74	5511	6.0	-37 7	10.2	9.6	F5	2	..	39925b
25	5408	5.7	-36 53	10.4	10.1	A2	1	..	39925b	75	5019	6.0	-42 14	9.6	10.3	K5	1	..	38418b
26	4971	5.7	-40 38	8.7	8.0	Ao	6	..	38418b	76	4906	6.0	-45 7	8.74	8.0	Ao	6	0,6	38415b
27	5017	5.7	-42 54	8.9	8.0	B2	5	..	38418b	77	1098	6.0	-63 38	8.7	9.5	G5	1	..	40096b
28	4987	5.7	-43 23	9.1	9.0	Fo	3	..	38418b	78	974	6.0	-66 41	10.1	10.2	A5	1	..	21452b
29	3533	5.7	-51 12	9.4	10.2	Ko	1	..	38415b	79	301	6.0	-82 14	9.4	9.4	Ao	2	..	13465b
30	1976	5.7	-52 50	8.8	9.1	Ao	2	..	40275b	80	832	6.1	+63 35	9.0	10.0	K	1	..	37517i
31	2162	5.7	-53 58	7.6	7.6	B8	7	..	40275b	81	2049	6.1	+24 2	8.7	8.7	A	2	..	37607i
32	2054	5.7	-54 10	8.5	9.1	F5	4	..	40275b	82	1987	6.1	+20 50	8.9	9.5	G	3	R	37607i
33	1320	5.7	-60 21	8.3	8.2	Ao	4	..	41151b	83	2747	6.1	-7 11	9.5	9.6	A2	2	..	19231b
34	1321	5.7	-60 46	8.6	9.4	Ao	2	..	38748b	84	2771	6.1	-14 39	9.9	10.7	G5	1	..	18995b
35	452	5.8	+73 22	5.89	5.95	A2	10	..	37714i	85	6930	6.1	-25 53	7.28	7.7	B5	4	2,8	11015b
36	724	5.8	+63 55	9.3	10.1	G5	1	..	37517i	86	4696	6.1	-47 49	7.8	8.7	G5	5	..	38415b
37	1322	5.8	+55 47	7.9	8.9	Ko	4	..	37705i	87	4171	6.1	-49 25	10.2	10.2	Go	1	..	38415b
38	2007	5.8	+37 57	9.1	9.7	Go	1	..	37459i	88	1892	6.1	-57 55	8.3	9.1	G5	1	..	41151b
39	1819	5.8	+33 31	8.9	10.0	K2	1	..	37345i	89	1082	6.1	-65 51	9.6	10.2	Go	2	..	21452b
40	2129	5.8	+9 9	9.0	9.3	F2	1	..	38198i	90	894	6.1	-68 10	9.3	10.4	K2	1	..	21452b
41	4970	5.8	-40 34	10.2	9.4	Ao	2	..	38418b	91	..	6.1	-69 32	Neb.	Neb.	Pe	..	R	76,22
42	4850	5.8	-41 11	10.7	9.7	Ao	1	..	38418b	92	301	6.2	+77 53	9.3	9.9	G	2	..	37714i
43	5176	5.8	-45 3	9.8	10.4	Ao	1	..	38418b	93	1932	6.2	+36 47	8.5	8.6	A2	2	..	37345i
44	4955	5.8	-46 25	9.8	10.4	G5	2	..	38415b	94	2043	6.2	+14 46	9.84	10.62	G5	1	..	5396m
45	4690	5.8	-47 28	10.9	10.7	A	1	..	38415b	95	2216	6.2	-2 7	9.9	10.2	F2	2	..	19392b
46	4462	5.8	-48 20	10.0	9.6	B9	3	..	38415b	96	2818	6.2	-12 15	8.2	9.0	G5	5	..	18995b
47	4461	5.8	-48 33	9.8	9.6	Ao	3	..	38415b	97	2772	6.2	-15 3	7.56	7.56	Ao	5	..	13154b
48	4167	5.8	-49 51	10.5	10.2	Go	2	..	38415b	98	2772	6.2	-17 24	8.0	8.1	A2	6	..	13154b
49	2164	5.8	-53 11	6.9	7.8	A2	3	0,8	42951b	99	2515	6.2	-22 42	8.0	9.3	K2	3	..	13144b
50	1185	5.8	-62 5	9.7	10.2	F8	1	..	40096b	100	5639	6.2	-34 31	9.4	9.6	A2	2	..	18927b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

79000

9^h 6^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5022	6.2	-42 10	9.8	9.7	F5	1	..	38418b	51	4861	6.5	-41 36	10.7	10.3	A	1	..	38418b
2	4697	6.2	-47 31	10.2	10.1	B9	2	..	38415b	52	4176	6.5	-49 52	10.9	10.2	Go	1	..	38415b
3	1986	6.2	-52 36	8.9	9.6	Go	3	..	40275b	53	2028	6.5	-56 47	8.3	8.8	Ao	3	..	41151b
4	2169	6.2	-53 24	8.9	9.7	G5	1	..	40275b	54	1289	6.5	-59 9	8.6	8.6	F2	3	..	41151b
5	289	6.3	+81 48	9.3	9.8	F8	2	..	37493i	55	581	6.6	+67 33	7.9	8.2	Fo	7	..	37517i
6	1480	6.3	+46 5	8.7	9.5	G5	1	E	38240i	56	2750	6.6	-7 39	9.9	10.3	F5	1	..	19231b
7	1829	6.3	+30 43	8.5	8.9	F5	2	..	38630i	57	2773	6.6	-17 33	9.2	10.0	G5	2	..	13154b
8	1909	6.3	+26 27	9.1	9.6	F8	3	..	38630i	58	5643	6.6	-34 57	9.03	10.1	G5	2	..	39925b
9	2138	6.3	+18 27	6.75	6.75	Ao	8	..	37607i	59	5437	6.6	-35 36	9.3	10.2	G5	1	..	39925b
10	1999	6.3	+14 53	9.29	10.07	G5	3	5,1	5396m	60	5423	6.6	-36 26	7.6	8.4	Ko	5	..	13055b
11	2477	6.3	+0 42	6.96	7.96	Ko	5	..	37606i	61	4910	6.6	-45 59	9.6	8.9	Ao	4	..	38415b
12	2600	6.3	-3 31	9.2	10.2	Ko	2	..	19392b	62	4476	6.6	-48 40	10.5	9.9	Ao	2	..	38415b
13	2761	6.3	-10 10	9.66	9.66	Ao	3	..	18995b	63	1997	6.6	-52 20	8.9	9.0	A2	4	..	40275b
14	2715	6.3	-21 20	9.2	9.8	F8	1	..	18977b	64	562	6.6	-75 41	9.3	9.9	Go	3	..	21453b
15	6798	6.3	-26 21	8.7	9.2	Ko	3	..	24494b	65	1934	6.7	+41 18	8.1	9.2	K2	1	..	37459i
16	6319	6.3	-27 47	8.49	10.1	K5	1	..	24494b	66	2120	6.7	+5 53	6.21	6.49	Fo	8	..	37606i
17	6983	6.3	-31 16	9.7	10.1	A	1	..	18927b	67	6995	6.7	-31 41	9.5	9.9	Go	1	..	18927b
18	5640	6.3	-34 57	9.64	10.5	A2	2	..	39925b	68	5519	6.7	-37 14	8.5	9.0	B9	3	..	39925b
19	5330	6.3	-38 20	7.55	8.3	K2	3	0,3	39925b	69	4865	6.7	-41 45	8.8	9.2	Ko	3	..	38418b
20	5025	6.3	-42 36	10.9	10.0	A	1	..	38418b	70	4969	6.7	-46 43	9.1	8.3	B8	5	..	38415b
21	4995	6.3	-43 46	7.9	8.0	Ao	7	..	38418b	71	4706	6.7	-47 48	7.8	8.6	G5	6	..	38415b
22	4965	6.3	-46 7	9.0	9.5	K2	2	..	38415b	72	4479	6.7	-48 53	7.2	7.5	B8	10	..	38415b
23	4701	6.3	-47 21	10.0	9.5	Ao	4	..	38415b	73	3893	6.7	-50 13	9.8	9.9	Ao	2	..	38415b
24	4469	6.3	-48 10	8.9	8.7	F5	4	..	38415b	74	3892	6.7	-50 30	9.1	9.4	Ao	4	..	38415b
25	4471	6.3	-49 1	6.41	7.5	A3	10	..	38415b	75	1404	6.7	-58 52	7.6	7.9	A3	3	..	42241b
26	3542	6.3	-51 51	9.6	9.3	A2	3	..	40275b	76	897	6.7	-68 7	8.3	8.6	F2	7	..	21452b
27	863	6.3	-70 34	7.6	8.6	Ko	3	..	22988b	77	1843	6.8	+44 43	8.32	9.50	K5	3	..	38639i
28	1058	6.4	+61 50	5.23	5.73	F8	9	R	37517i	78	2002	6.8	+15 8	9.9	10.7	G5	3	0,1	5396m
29	1319	6.4	+53 27	9.1	10.1	Ko	2	..	38650i	79	2162	6.8	+3 33	8.5	8.5	Ao	4	..	37606i
30	1374	6.4	+51 57	9.5	10.1	G	1	..	38240i	80	2217	6.8	-1 49	9.2	10.2	Ko	3	..	19392b
31	2172	6.4	+40 24	8.7	9.3	Go	2	..	38639i	81	2808	6.8	-2 44	8.4	9.4	Ko	4	..	19392b
32	2136	6.4	+4 12	8.3	8.3	Ao	2	2,2	9462b	82	2762	6.8	-11 4	8.2	9.3	K2	3	..	18995b
33	2601	6.4	-8 30	9.2	10.3	K2	1	..	19231b	83	6807	6.8	-27 2	8.9	9.5	F5	3	..	24494b
34	2602	6.4	-19 5	8.6	8.9	Fo	3	..	13154b	84	5443	6.8	-35 40	9.6	8.7	Go	3	..	39925b
35	5807	6.4	-34 1	8.1	8.1	A3	5	..	18927b	85	5340	6.8	-38 58	10.2	9.7	Ao	1	..	39925b
36	5433	6.4	-35 31	8.4	9.6	G5	3	..	39925b	86	4986	6.8	-40 54	9.6	9.7	Ko	1	..	38418b
37	4996	6.4	-43 31	9.4	9.2	A3	3	..	38418b	87	4867	6.8	-41 9	8.5	8.5	Ao	5	..	38418b
38	4967	6.4	-46 37	10.0	10.1	Fo	2	..	38415b	88	4866	6.8	-41 57	9.0	8.9	F8	3	..	38418b
39	4968	6.4	-47 4	6.9	7.0	B8	6	1,3	46200b	89	4916	6.8	-45 29	9.1	9.6	G5	3	5,2	38415b
40	1325	6.4	-60 48	9.5	9.5	Ao	2	..	40096b	90	4482	6.8	-48 58	10.9	10.1	A5	1	..	38415b
41	896	6.4	-68 21	7.2	7.3	B5	10	..	21452b	91	3553	6.8	-51 41	6.9	7.5	Ko	3	5,8	42951b
42	1623	6.5	+49 53	9.67	10.09	F5	1	..	38240i	92	2172	6.8	-54 0	7.9	9.4	K5	2	..	40275b
43	1735	6.5	+48 48	8.9	9.7	G5	2	..	38240i	93	1329	6.8	-60 49	9.6	9.7	A2	3	..	40096b
44	2173	6.5	+40 48	7.9	8.3	F5	2	..	37459i	94	1328	6.8	-61 1	9.7	9.7	Ao	3	..	40096b
45	1955	6.5	+34 0	8.2	9.0	G5	2	..	37345i	95	1975	6.9	+42 45	9.0	9.8	G5	2	..	38639i
46	1710	6.5	+28 17	9.5	10.0	F8	1	..	38630i	96	2003	6.9	+15 24	6.40	7.18	G5	7	5,9	37607i
47	2773	6.5	-14 33	8.0	8.0	Ao	5	..	13154b	97	2839	6.9	-6 34	8.0	9.4	Ma	4	..	19231b
48	6132	6.5	-32 42	8.7	8.4	A2	5	..	18927b	98	5818	6.9	-33 30	8.8	8.8	F5	2	..	18927b
49	5642	6.5	-34 12	9.4	9.6	Ao	3	..	18927b	99	5649	6.9	-35 1	8.8	9.6	Ko	2	..	39925b
50	5436	6.5	-35 35	10.0	9.1	Ao	3	..	39925b	100	5247	6.9	-39 9	9.3	8.6	F5	2	..	39925b

THE HENRY DRAPER CATALOGUE.

79100

9^h 6^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5032	6.9	-42 40	10.5	9.1	A2	3	..	38418b	51	5249	7.2	-39 48	10.2	9.7	Ao	2	..	39925b
2	3894	6.9	-50 12	10.0	10.2	F8	1	..	38415b	52	4992	7.2	-40 16	10.0	11.0	A5	1	..	39925b
3	3895	6.9	-51 4	10.9	10.2	A3	1	..	38415b	53	4994	7.2	-40 50	9.0	8.5	G5	5	..	38418b
4	1191	6.9	-61 32	8.6	8.9	Ao	3	..	13026b	54	5038	7.2	-42 51	7.3	7.1	A2	8	..	38418b
5	1040	6.9	-67 21	9.4	10.0	G	1	..	21452b	55	4973	7.2	-46 42	10.9	10.5	G5	1	..	38415b
6	563	6.9	-74 21	7.3	7.3	Ao	4	..	24452b	56	4491	7.2	-48 47	9.6	9.9	Go	1	..	38415b
7	1650	7.0	+47 24	7.52	8.02	F8	5	..	38240i	57	1084	7.2	-65 26	8.9	9.7	G5	3	..	21452b
8	2139	7.0	+4 17	6.11	6.11	Ao	10	2,10	9462b	58	1893	7.3	+43 38	5.30	5.25	B8	..	0,9	56,86
9	2603	7.0	-3 55	9.9	10.9	Ko	1	..	19392b	59	1955	7.3	+37 26	8.7	9.7	Ko	1	..	37459i
10	6135	7.0	-33 1	9.4	9.6	A5	1	..	18927b	60	2140	7.3	+17 54	8.7	9.5	G5	2	..	37607i
11	5651	7.0	-34 19	9.0	9.4	A2	3	..	18927b	61	2811	7.3	-2 12	10.1	10.2	A5	2	..	19392b
12	5445	7.0	-35 41	8.4	8.4	Ao	5	..	39925b	62	2577	7.3	-11 25	8.5	9.7	K5	3	..	18995b
13	5525	7.0	-37 40	9.6	10.1	F	2	..	39925b	63	2825	7.3	-13 0	9.2	10.2	Ko	1	..	18995b
14	5342	7.0	-38 12	9.3	9.7	Ko	2	..	39925b	64	2781	7.3	-13 41	9.2	10.3	K2	1	..	18995b
15	4872	7.0	-41 34	10.0	9.7	Ao	1	..	38418b	65	2728	7.3	-15 44	9.2	9.2	Ao	3	..	13154b
16	5035	7.0	-43 2	10.9	10.0	Ao	1	..	38418b	66	2710	7.3	-16 37	9.5	10.3	G5	1	..	13154b
17	5007	7.0	-43 8	10.2	9.6	A2	3	..	38418b	67	7816	7.3	-24 18	10.4	10.3	A2	1	..	24494b
18	4971	7.0	-46 22	9.4	9.6	Ko	3	..	38415b	68	6338	7.3	-27 21	8.1	10.1	A2	1	..	24494b
19	4485	7.0	-48 45	10.5	9.9	F2	2	..	38415b	69	5656	7.3	-34 42	9.4	10.1	Fo	2	..	39925b
20	3558	7.0	-51 8	9.8	9.6	A3	3	..	38415b	70	5200	7.3	-44 54	10.0	9.8	Ko	1	..	38418b
21	2002	7.0	-52 44	8.7	9.0	Ao	3	..	40275b	71	2010	7.3	-52 13	9.0	9.1	A3	3	..	40275b
22	1193	7.0	-61 27	9.4	10.2	G5	2	..	40096b	72	2011	7.3	-52 44	9.6	9.6	Ao	1	..	40275b
23	563	7.0	-75 8	9.68	9.6	A2	4	..	21453b	73	1296	7.3	-60 6	7.85	8.8	K2	2	..	41151b
24	298	7.0	-81 43	8.8	9.9	K2	1	..	20869b	74	1041	7.3	-67 39	8.8	10.0	K5	2	..	21452b
25	245	7.1	+83 20	8.8	8.9	A5	4	..	37546i	75	568	7.3	-76 10	7.3	7.3	B9	9	..	21453b
26	1988	7.1	+21 5	8.1	8.7	Go	3	..	37607i	76	2812	7.4	-2 35	9.2	10.0	G5	1	..	19392b
27	2032	7.1	+16 56	7.6	7.6	Ao	5	2,9	37607i	77	2564	7.4	-4 19	8.2	9.2	Ko	3	..	19231b
28	2810	7.1	-3 7	9.5	10.5	Ko	1	..	19392b	78	2843	7.4	-6 23	9.2	9.6	F5	2	..	19231b
29	2604	7.1	-4 9	7.42	7.50	A3	8	..	19231b	79	2844	7.4	-6 31	7.6	8.6	Ko	6	..	19231b
30	2840	7.1	-6 32	9.2	9.3	A2	2	..	19231b	80	2826	7.4	-12 57	8.7	9.7	Ko	2	..	18995b
31	2754	7.1	-7 42	8.8	9.6	G5	3	..	19231b	81	2644	7.4	-19 20	5.81	7.1	Ko	9	..	13154b
32	2706	7.1	-16 24	8.4	8.4	Ao	4	..	13154b	82	5657	7.4	-34 33	8.7	9.6	Ko	3	..	18927b
33	5037	7.1	-42 54	10.9	9.2	Ao	2	..	38418b	83	5454	7.4	-35 20	7.37	7.8	A2	6	1,8	18436b
34	4918	7.1	-45 10	8.74	9.3	Ko	4	0,3	38415b	84	5252	7.4	-39 11	8.0	8.8	Ko	2	..	39925b
35	4917	7.1	-45 57	10.9	10.4	F5	1	..	38415b	85	5040	7.4	-42 52	8.0	7.1	Fo	6	..	38418b
36	4712	7.1	-47 19	9.6	9.0	B9	4	..	38415b	86	5206	7.4	-44 27	4.96	5.6	B5	..	2,7-	28,203
37	4486	7.1	-48 23	10.5	10.2	A2	1	..	38415b	87	4185	7.4	-49 13	10.2	10.1	Ao	2	..	38415b
38	4181	7.1	-49 56	9.2	9.3	Ao	4	..	38415b	88	1195	7.4	-61 25	9.2	10.2	Ko	1	..	40096b
39	3897	7.1	-50 35	9.1	9.6	F2	3	..	38415b	89	1016	7.4	-69 18	10.3	10.4	A3	1	..	21452b
40	2008	7.1	-52 14	8.2	9.0	G5	4	..	40275b	90	1375	7.5	+56 2	7.46	7.46	Ao	7	..	37705i
41	2071	7.1	-54 17	9.0	8.9	Ao	3	..	40275b	91	1996	7.5	+11 4	7.9	8.3	F5	3	..	38283i
42	1282	7.2	+54 29	9.0	9.1	A2	2	..	37705i	92	2565	7.5	-4 53	8.25	9.32	K2	5	..	19231b
43	1845	7.2	+44 14	8.8	9.2	F5	2	..	38639i	93	2845	7.5	-6 42	6.02	6.08	A2	6	..	9006b
44	1960	7.2	+35 31	7.9	7.9	Ao	3	..	37345i	94	2766	7.5	-10 40	7.86	7.86	Ao	7	..	18995b
45	2034	7.2	+17 2	7.9	8.9	Ko	5	5,1	5396m	95	2782	7.5	-13 27	8.7	9.0	F2	5	..	18995b
46	2575	7.2	-11 46	8.7	9.1	F5	6	..	18995b	96	2776	7.5	-14 52	9.0	10.2	K5	1	3,1	18995b
47	2708	7.2	-16 35	9.2	10.2	Ko	1	..	13154b	97	5015	7.5	-43 39	8.6	8.1	F5	5	..	38418b
48	2782	7.2	-17 12	9.5	9.5	Ao	3	..	46198b	98	4980	7.5	-46 6	10.9	10.4	F2	1	..	38415b
49	6337	7.2	-28 1	7.75	8.1	B9	8	..	24494b	99	480	7.5	-78 0	10.3	10.4	A5	2	..	21453b
50	5449	7.2	-35 48	8.7	9.0	A2	3	..	39925b	100	1911	7.6	+25 50	8.6	9.7	K2	1	..	38630i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

79200

9^h 7^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	2608	7.6	- 3 38	9.9	10.4	F8	1	..	19392b	51	5666	7.9	-34 32	8.7	9.1	Fo	5	..	18927b
2	6342	7.6	-27 54	7.12	8.0	Ko	6	..	24494b	52	5463	7.9	-35 28	9.6	10.5	K5	1	..	39925b
3	5254	7.6	-39 7	10.9	10.3	F2	1	..	39925b	53	5462	7.9	-35 42	10.2	10.5	Ao	1	..	39925b
4	4879	7.6	-41 26	10.4	9.7	B9	2	..	38418b	54	5536	7.9	-37 16	9.6	9.6	F8	2	..	39925b
5	5210	7.6	-44 32	8.0	8.3	Fo	5	..	38418b	55	5537	7.9	-37 36	9.6	10.8	K5	1	..	39925b
6	2017	7.6	-52 38	7.4	8.1	B9	6	..	40275b	56	4885	7.9	-41 41	10.7	10.0	A	2	R	38418b
7	2186	7.6	-53 50	8.9	10.0	K2	1	..	40275b	57	3572	7.9	-51 13	9.0	9.7	Ko	3	..	38415b
8	1197	7.6	-61 52	9.1	9.4	Fo	3	..	40096b	58	3571	7.9	-52 1	9.4	10.4	Ao	3	..	40275b
9	1100	7.6	-63 24	9.1	9.2	A2	2	..	21452b	59	1181	7.9	-62 30	9.2	10.2	Ko	1	..	40096b
10	1320	7.7	+53 7	8.1	9.2	K2	3	R	37705i	60	977	7.9	-66 20	9.4	9.7	F2	3	..	21452b
11	1321	7.7	+53 7	8.1	9.2	K2	3	R	37705i	61	900	7.9	-68 55	10.1	10.7	Go	2	..	21452b
12	1489	7.7	+50 52	9.3	9.9	G	1	..	38240i	62	303	8.0	+78 23	8.0	8.8	G5	5	..	37714i
13	1912	7.7	+25 49	9.2	9.6	F5	1	..	38630i	63	1482	8.0	+45 51	9.1	9.5	F5	3	..	4904m
14	2054	7.7	+24 42	7.81	8.81	Ko	3	0,3	38630i	64	1956	8.0	+10 43	7.7	8.7	Ko	2	..	38283i
15	2004	7.7	+15 11	9.2	9.2	Ao	4	2,2	5396m	65	2566	8.0	- 4 47	8.6	9.8	K5	2	..	19231b
16	2152	7.7	- 0 49	8.6	9.7	K2	2	..	19392b	66	2729	8.0	-15 17	9.35	10.53	K5	1	..	18995b
17	2218	7.7	- 1 40	10.6	10.7	A2	2	..	19392b	67	6966	8.0	-25 11	7.36	8.1	F5	7	R	24494b
18	2814	7.7	- 2 37	7.24	8.24	Ko	7	..	19392b	68	6966	8.0	-25 11	7.36	8.1	A2	7	R	24494b
19	2767	7.7	-10 19	8.66	9.66	Ko	3	..	18995b	69	5668	8.0	-34 34	9.0	10.2	K2	1	..	18927b
20	2768	7.7	-11 9	9.0	9.4	F5	3	..	18995b	70	5360	8.0	-38 10	10.0	10.0	G5	2	..	39925b
21	2783	7.7	-13 51	10.1	10.1	Ao	1	..	18995b	71	5257	8.0	-39 55	8.7	8.3	Ao	3	..	39925b
22	7018	7.7	-31 11	9.2	9.0	A3	3	..	18927b	72	5003	8.0	-40 41	9.3	10.2	K2	2	..	38418b
23	5460	7.7	-35 36	10.2	10.1	Ao	2	..	39925b	73	5220	8.0	-44 8	9.6	10.4	G5	1	..	38418b
24	5534	7.7	-37 16	10.0	9.6	A2	2	..	39925b	74	4929	8.0	-45 40	10.0	9.8	Ao	1	..	38418b
25	5355	7.7	-39 3	9.4	9.4	Ao	3	..	39925b	75	4987	8.0	-46 10	5.92	5.75	B3	..	0,7-	56,126
26	4881	7.7	-41 12	7.4	7.2	A2	7	..	38418b	76	4724	8.0	-47 40	10.2	11.7	F5	1	..	38415b
27	5047	7.7	-43 3	10.2	10.5	G5	1	..	38418b	77	4194	8.0	-50 2	9.6	9.3	Ao	3	..	38415b
28	5019	7.7	-43 54	10.2	10.0	A2	2	..	38418b	78	3575	8.0	-51 42	9.0	8.1	B8	5	..	38415b
29	5020	7.7	-44 0	10.9	10.4	A	1	..	38418b	79	978	8.0	-66 8	8.8	9.1	Fo	5	..	21452b
30	4983	7.7	-46 47	10.9	10.1	Go	2	..	38415b	80	1626	8.1	+50 22	9.5	10.7	K5	1	..	38240i
31	4497	7.7	-48 50	8.5	8.7	F2	5	..	38415b	81	1846	8.1	+43 52	8.7	9.1	F5	3	..	38639i
32	4190	7.7	-49 19	8.4	8.7	Ao	6	..	38415b	82	1962	8.1	+34 14	8.2	9.0	G5	3	..	37345i
33	1334	7.7	-60 16	8.45	9.4	K2	1	..	41151b	83	2129	8.1	+ 6 14	7.9	7.9	B9	8	..	37606i
34	1727	7.8	+26 51	9.1	9.9	G5	1	..	38630i	84	2154	8.1	- 0 17	9.6	10.2	Go	2	..	19392b
35	2062	7.8	+25 40	8.2	8.3	A5	2	..	38630i	85	2850	8.1	- 7 8	8.6	9.1	F8	4	..	19231b
36	2608	7.8	- 8 31	8.8	9.3	F8	2	..	19231b	86	2610	8.1	- 8 17	8.4	9.5	K2	3	..	19231b
37	2769	7.8	-11 5	8.0	8.0	Ao	7	..	18995b	87	2786	8.1	-13 50	9.9	10.0	A2	2	..	18995b
38	2578	7.8	-11 16	9.5	9.6	A2	4	..	18995b	88	2778	8.1	-15 3	9.9	10.3	F5	1	..	18995b
39	6347	7.8	-27 50	9.5	9.8	F2	2	..	24494b	89	2715	8.1	-16 23	8.5	8.5	B9	5	..	13154b
40	5442	7.8	-37 3	9.4	9.3	A3	3	..	39925b	90	7019	8.1	-28 32	6.77	7.3	B8	10	..	24494b
41	5358	7.8	-38 51	6.12	6.5	B9	..	1,10	56,126	91	7226	8.1	-29 23	9.4	9.7	A2	2	..	24494b
42	4928	7.8	-45 35	9.4	9.0	A2	3	..	38418b	92	7022	8.1	-31 9	9.4	9.0	Ao	4	..	18927b
43	3570	7.8	-51 29	9.2	9.3	B9	3	..	38415b	93	7023	8.1	-31 30	8.2	8.2	Ao	6	..	18927b
44	976	7.8	-66 57	10.0	10.0	A	1	..	21452b	94	5004	8.1	-40 36	9.4	9.4	A5	4	..	38418b
45	569	7.8	-76 24	8.4	8.9	F8	5	..	21453b	95	5026	8.1	-43 18	9.2	10.1	Ko	1	..	38418b
46	1376	7.9	+55 52	9.3	9.9	Go	2	..	37705i	96	4930	8.1	-45 49	9.4	9.3	A3	2	..	38418b
47	1283	7.9	+53 54	8.7	9.7	Ko	2	..	38240i	97	4504	8.1	-48 16	9.8	9.4	Ao	3	..	38415b
48	1991	7.9	+21 42	6.09	6.09	Ao	9	..	37607i	98	1335	8.1	-61 5	9.1	9.7	Ao	2	..	40096b
49	2153	7.9	- 1 7	9.4	9.9	F8	2	..	19392b	99	901	8.1	-68 30	8.8	8.8	B8	5	..	21452b
50	6963	7.9	-26 4	8.0	9.5	Ko	4	..	24494b	100	514	8.2	+69 30	9.0	9.8	G5	2	..	37706i

THE HENRY DRAPER CATALOGUE.

79300

9^h 8^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1490	8.2	+51 34	9.8	10.8	K	1	..	3824oi	51	1419	8.4	-58 33	3.56	3.39	B3	..	R	28,203
2	1653	8.2	+47 3	8.9	9.5	Go	4	..	4904m	52	563	8.5	+68 27	9.8	9.8	A	2	..	37517i
3	1914	8.2	+26 35	10.0	11.0	Ko	1	..	3863oi	53	1227	8.5	+59 8	9.1	9.6	F8	2	..	37705i
4	1998	8.2	+11 33	9.2	9.5	F	1	..	38283i	54	1211	8.5	+57 10	5.48	6.66	K5	8	..	37705i
5	2183	8.2	+8 28	8.5	9.6	K2	1	..	9462b	55	2171	8.5	+3 16	9.2	10.2	Ko	1	..	37606i
6	2169	8.2	+3 47	8.5	9.5	Ko	2	..	37606i	56	2221	8.5	-1 59	9.4	10.6	K5	1	..	19392b
7	2567	8.2	-4 16	9.2	10.3	K2	1	..	19392b	57	2611	8.5	-3 58	9.2	9.8	Go	2	..	19392b
8	2780	8.2	-15 1	7.36	7.70	F2	6	..	13154b	58	2751	8.5	-5 25	9.2	9.6	F5	2	..	19231b
9	2716	8.2	-17 7	9.7	10.3	Go	1	..	46198b	59	2609	8.5	-18 23	9.2	9.2	Ao	4	..	13154b
10	6822	8.2	-26 6	8.3	10.1	Ma	1	..	24494b	60	6972	8.5	-25 13	9.95	10.1	Ao	2	..	24494b
11	5031	8.2	-43 13	10.2	10.1	F5	2	..	38418b	61	7028	8.5	-31 7	8.5	8.8	F8	4	..	18927b
12	4990	8.2	-46 29	8.4	8.0	A2	7	2,3	38415b	62	5472	8.5	-35 16	7.9	8.7	Ko	4	0,2	39925b
13	2195	8.2	-54 4	9.1	9.1	Ao	2	..	40275b	63	5452	8.5	-36 58	9.4	10.5	K5	1	..	39925b
14	1909	8.2	-57 15	8.2	8.5	A3	4	..	41151b	64	5547	8.5	-37 38	11.4	9.6	Ao	2	..	39925b
15	557	8.3	+70 18	7.14	8.14	Ko	8	..	37706i	65	5055	8.5	-42 11	9.1	8.9	Ao	5	..	38418b
16	582	8.3	+67 45	9.0	9.5	F8	3	..	37517i	66	4731	8.5	-47 37	10.5	9.6	A2	2	..	38415b
17	1963	8.3	+33 54	8.5	8.8	F2	3	..	37345i	67	2203	8.5	-53 42	8.9	8.8	B9	3	..	40275b
18	2063	8.3	+25 43	8.5	9.5	Ko	2	..	3863oi	68	1912	8.5	-57 55	8.3	8.2	B9	3	..	41151b
19	2048	8.3	+14 37	8.9	..	R5	3	0,3	5396m	69	1420	8.5	-58 48	8.9	9.4	A	1	..	41151b
20	2144	8.3	+4 15	7.6	7.7	A2	5	..	37606i	70	864	8.5	-70 42	8.4	8.5	A3	3	..	22988b
21	2170	8.3	+3 20	8.9	9.7	G5	2	..	37606i	71	1847	8.6	+44 28	8.9	9.5	Go	4	R	4904m
22	2759	8.3	-7 54	9.0	10.0	Ko	1	..	19231b	72	1896	8.6	+42 59	8.7	9.7	Ko	4	2,4	4904m
23	2788	8.3	-17 49	9.2	9.3	A3	2	..	46198b	73	2065	8.6	+25 26	7.02	8.02	Ko	5	..	3863oi
24	2607	8.3	-18 56	8.6	9.7	K2	1	..	13154b	74	2147	8.6	+18 40	8.7	9.3	Go	3	..	37607i
25	2725	8.3	-21 25	9.2	9.8	A5	1	..	18977b	75	2139	8.6	+4 50	8.06	8.62	Go	2	..	37606i
26	5841	8.3	-33 55	8.1	8.7	Fo	4	..	18927b	76	2612	8.6	-3 32	9.7	10.2	F8	3	..	19392b
27	5673	8.3	-34 34	9.4	10.1	Ao	2	..	18927b	77	2852	8.6	-6 36	9.9	10.0	A2	1	..	19231b
28	5365	8.3	-38 41	9.1	8.8	A3	4	..	18436b	78	2779	8.6	-10 41	8.5	8.8	Fo	4	..	18995b
29	4889	8.3	-41 56	10.0	10.3	A2	2	..	38418b	79	2780	8.6	-10 49	7.9	9.0	K2	5	..	18995b
30	5035	8.3	-43 39	10.0	9.0	F5	3	..	38418b	80	2781	8.6	-14 17	9.2	9.3	A2	3	..	13154b
31	5032	8.3	-43 47	9.0	9.0	F5	3	..	38418b	81	7032	8.6	-31 24	8.9	9.3	Ko	2	..	18927b
32	5228	8.3	-44 49	8.3	7.8	B8	7	..	38418b	82	5457	8.6	-36 57	10.9	10.5	Ao	1	..	39925b
33	4195	8.3	-49 35	10.5	10.2	F8	1	..	38415b	83	5368	8.6	-38 32	9.3	9.7	Ko	2	..	18436b
34	2036	8.3	-56 44	8.4	8.5	Ao	2	..	41151b	84	4893	8.6	-42 1	Neb.	Neb.	Pd	..	R	76,22
35	1303	8.3	-59 28	7.7	7.6	A2	5	..	41151b	85	5039	8.6	-43 16	9.1	9.8	Ko	1	..	38418b
36	1336	8.3	-60 55	9.2	9.5	Fo	2	..	40096b	86	5233	8.6	-45 3	9.19	9.3	Ao	3	..	38418b
37	1008	8.3	-65 5	7.50	7.9	F2	7	..	21452b	87	2205	8.6	-53 37	6.74	7.1	B9	5	..	42951b
38	449	8.4	+72 37	8.7	8.8	A3	3	..	37714i	88	1339	8.6	-60 32	7.6	7.4	A2	6	..	41151b
39	2175	8.4	+40 8	8.2	9.2	Ko	1	..	37459i	89	142	8.7	+85 38	8.7	9.3	Go	3	..	37546i
40	1834	8.4	+30 22	8.1	8.9	G5	3	E	37741i	90	304	8.7	+77 50	9.3	10.3	Ko	1	..	37714i
41	2186	8.4	+8 2	8.5	8.9	F5	3	0,3	38198i	91	1377	8.7	+56 29	8.5	8.8	F2	3	..	37705i
42	2776	8.4	-10 23	8.5	9.5	Ko	4	..	18995b	92	2223	8.7	+39 2	6.75	7.09	F2	8	..	37345i
43	7835	8.4	-24 39	9.5	10.4	Ko	1	..	24494b	93	1827	8.7	+33 48	9.5	10.3	G5	1	..	37345i
44	7023	8.4	-29 6	9.4	10.5	K2	1	..	24494b	94	1718	8.7	+28 12	8.6	9.6	Ko	1	..	3863oi
45	5471	8.4	-35 48	9.0	9.9	Ko	2	..	39925b	95	2173	8.7	+3 17	7.9	9.0	K2	5	..	37606i
46	5261	8.4	-39 38	9.0	9.7	F2	2	..	39925b	96	2614	8.7	-3 29	9.1	10.1	Ko	2	..	19392b
47	4892	8.4	-41 26	10.4	10.3	Ao	1	..	38418b	97	2788	8.7	-13 53	9.0	10.1	K2	3	..	18995b
48	5036	8.4	-43 54	10.0	9.6	Ao	2	..	38418b	98	2783	8.7	-14 56	9.7	10.2	F8	2	..	18995b
49	4505	8.4	-48 22	8.8	9.6	K5	2	..	38415b	99	6157	8.7	-32 16	10.7	10.5	A	1	..	18927b
50	3914	8.4	-50 30	7.7	9.0	Ko	6	..	38415b	100	5013	8.7	-40 7	8.84	8.9	Go	3	..	39925b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

79400

9^h 8^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5058	8.7	-42 32	9.0	10.2	K2	2	..	38418b	51	1693	9.1	+45 43	9.5	10.0	F8	2	..	4904m
2	5040	8.7	-43 22	var.	var.	Mb	3	5,1 R	38418b	52	1966	9.1	+35 3	6.02	6.58	Go	8	..	37345i
3	4935	8.7	-45 26	7.0	7.4	F5	2	0,9	4947b	53	1995	9.1	+12 1	8.5	8.6	A2	3	..	38283i
4	4995	8.7	-46 21	10.9	9.8	Ao	3	..	38415b	54	2832	9.1	-12 51	8.7	9.0	Fo	4	..	18995b
5	4994	8.7	-46 30	10.5	10.4	Ao	2	..	38415b	55	2649	9.1	-19 21	8.6	10.0	Go	2	..	13154b
6	1340	8.7	-60 42	10.2	10.3	A2	1	..	40096b	56	7239	9.1	-29 15	6.53	8.4	K5	6	..	24494b
7	362	8.8	+77 9	9.1	10.2	K2	1	..	37714i	57	5482	9.1	-35 28	9.4	9.6	Fo	2	5,1-	39925b
8	1484	8.8	+45 53	8.6	9.6	Ko	4	5,1	4904m	58	5064	9.1	-42 7	8.6	10.0	K2	2	..	38418b
9	2131	8.8	+6 20	8.5	9.6	K2	2	..	9462b	59	5065	9.1	-43 5	8.9	8.2	Ao	4	..	38418b
10	2482	8.8	+0 13	7.9	8.9	Ko	3	..	37606i	60	4744	9.1	-47 46	9.8	10.0	A2	3	..	38415b
11	2617	8.8	-3 53	9.2	9.3	A3	1	..	19231b	61	4205	9.1	-50 3	10.2	10.1	F8	2	..	38415b
12	7028	8.8	-28 58	8.1	9.5	Ko	2	..	24494b	62	3921	9.1	-50 36	10.5	10.2	Fo	1	..	38415b
13	7301	8.8	-30 39	7.22	8.1	Ko	5	..	18927b	63	2090	9.1	-54 45	8.9	9.4	A3	2	..	40275b
14	4895	8.8	-41 7	10.2	9.7	Ao	3	..	38418b	64	1188	9.1	-62 32	9.0	9.4	F5	2	..	40096b
15	5059	8.8	-42 53	9.0	8.0	Ao	5	..	38418b	65	1492	9.2	+51 5	8.8	9.8	Ko	2	..	38240i
16	5041	8.8	-43 12	5.74	5.5	B8	..	1,5-	56,126	66	1848	9.2	+44 40	9.42	9.98	Go	3	..	4904m
17	5042	8.8	-43 53	10.5	10.1	Fo	1	..	38418b	67	2061	9.2	+24 31	9.2	10.0	G5	1	..	38646i
18	4736	8.8	-47 42	10.5	10.9	G5	1	..	38415b	68	2062	9.2	+23 8	7.9	8.9	Ko	2	..	37607i
19	2007	8.8	-55 12	9.01	9.1	Ao	3	..	40275b	69	2167	9.2	+2 44	3.84	3.84	Ao	..	R	6445c
20	1913	8.8	-57 12	7.3	7.6	B9	5	..	41151b	70	2820	9.2	-2 18	9.9	10.9	Ko	1	..	19392b
21	1914	8.8	-57 33	6.64	6.6	B3	..	2,6-	56,126	71	5282	9.2	-39 58	8.94	9.1	Ao	3	..	39925b
22	571	8.8	-76 34	8.9	10.1	K5	3	..	21453b	72	5018	9.2	-40 9	9.14	9.4	Fo	3	..	39925b
23	1744	8.9	+48 38	7.9	7.9	Ao	4	..	38240i	73	4944	9.2	-45 34	9.4	9.8	A2	2	..	38418b
24	1956	8.9	+37 29	8.1	9.1	Ko	3	..	37345i	74	3924	9.2	-50 54	10.2	10.2	F5	1	..	38415b
25	2059	8.9	+24 42	9.01	10.01	Ko	1	..	38646i	75	1422	9.2	-58 16	8.4	8.5	B9	3	..	41151b
26	2182	8.9	+19 2	9.2	10.2	K	1	..	37607i	76	1423	9.2	-58 23	8.0	8.4	Ao	4	..	41151b
27	1928	8.9	+16 33	9.2	9.8	Go	1	..	37607i	77	1746	9.3	+48 7	8.7	9.5	G5	2	..	38240i
28	2224	8.9	-1 41	8.9	9.2	F2	4	..	19392b	78	1694	9.3	+45 7	8.8	10.2	Mb	4	5,2	4904m
29	2855	8.9	-6 27	8.6	9.6	Ko	3	..	19231b	79	1997	9.3	+11 55	8.3	9.4	K2	2	..	38283i
30	2583	8.9	-11 58	8.8	9.9	K2	3	..	18995b	80	2619	9.3	-4 5	9.9	10.4	F8	1	..	19392b
31	2719	8.9	-16 21	9.0	9.4	F5	2	..	13154b	81	2786	9.3	-14 17	6.65	7.65	Ko	7	..	13154b
32	2718	8.9	-16 34	9.9	10.9	K	1	..	13154b	82	2655	9.3	-19 34	8.2	9.0	A2	4	..	13154b
33	7846	8.9	-24 13	7.74	8.7	K2	3	..	24494b	83	2653	9.3	-19 49	8.2	8.3	A2	7	..	13154b
34	6163	8.9	-32 42	10.7	10.1	A	1	..	18927b	84	2530	9.3	-22 27	7.56	8.3	G5	5	..	18977b
35	5278	8.9	-39 33	9.3	10.3	Ko	1	..	39925b	85	7852	9.3	-24 29	8.5	8.1	Ao	5	..	24494b
36	5015	8.9	-40 42	9.6	10.0	F2	2	..	38418b	86	7051	9.3	-31 59	9.2	9.3	Ko	2	..	18927b
37	1042	8.9	-67 45	9.7	10.8	K2	1	..	21452b	87	5484	9.3	-35 34	9.1	9.6	Go	2	2,2	39925b
38	902	8.9	-68 15	8.6	8.9	Fo	5	..	21452b	88	5283	9.3	-39 9	9.4	10.2	Ko	1	..	39925b
39	1285	9.0	+54 26	4.89	5.03	A5	..	3, R	56,86	89	4208	9.3	-49 11	11.5	10.2	Ao	2	..	38415b
40	1957	9.0	+37 6	8.3	9.3	Ko	2	..	37345i	90	1307	9.3	-59 53	7.7	7.6	Ao	5	..	41151b
41	2818	9.0	-3 4	9.7	10.7	Ko	1	..	19392b	91	1009	9.3	-64 12	8.7	9.7	Ko	2	..	21452b
42	2785	9.0	-14 26	9.9	10.9	Ko	1	..	18995b	92	1018	9.3	-69 14	9.3	10.3	Ko	2	..	21452b
43	2792	9.0	-18 7	9.2	10.0	G5	1	..	13154b	93	1378	9.4	+56 25	8.9	9.9	Ko	2	..	37705i
44	7847	9.0	-24 26	9.1	8.7	Ao	4	..	24494b	94	1818	9.4	+49 22	8.07	8.85	G5	4	..	38240i
45	7042	9.0	-31 54	9.7	9.9	Ko	1	..	18927b	95	1849	9.4	+44 34	9.5	10.1	Go	2	..	4904m
46	2209	9.0	-53 33	7.9	7.6	B9	5	..	40275b	96	1897	9.4	+42 51	7.82	8.82	Ko	4	..	37459i
47	1201	9.0	-61 54	4.18	4.01	B3	..	R	28,203	97	1939	9.4	+36 24	7.9	9.0	K2	1	..	37345i
48	1086	9.0	-65 34	9.5	9.5	Ao	3	..	21452b	98	2063	9.4	+23 47	7.87	8.65	G5	3	..	37607i
49	1043	9.0	-67 54	8.4	9.4	Ko	5	..	21452b	99	1930	9.4	+16 24	7.9	8.3	F5	3	..	37607i
50	1322	9.1	+52 59	9.3	9.6	F	2	..	38240i	100	2823	9.4	-2 30	9.5	10.6	K2	1	..	19392b

THE HENRY DRAPER CATALOGUE.

79500

9^h 9^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2622	m. 9.4	° 3 56	9.0	9.0	Ao	2	..	19231b	51	1695	m. 9.7	° 45 21	8.5	9.3	G5	5	..	4904m
2	2763	9.4	— 7 52	9.1	9.6	F8	3	..	19231b	52	1722	9.7	+28 20	7.9	8.4	F8	3	..	3863oi
3	2585	9.4	—12 4	9.9	9.9	Ao	2	..	18995b	53	2067	9.7	+23 13	7.9	8.2	F2	3	..	37607i
4	2731	9.4	—21 40	8.8	9.9	Ko	1	..	18977b	54	2009	9.7	+15 22	5.57	6.57	Ko	8	R	37607i
5	6370	9.4	—27 53	7.51	8.0	Ko	5	..	24494b	55	2143	9.7	+ 4 52	8.01	9.01	Ko	4	..	37606i
6	5464	9.4	—36 26	9.4	9.6	Go	4	..	18436b	56	2150	9.7	+ 4 37	8.00	9.00	Ko	3	..	37606i
7	5466	9.4	—36 54	10.9	10.1	A2	1	..	18436b	57	2227	9.7	— 1 48	10.6	11.8	K5	1	..	19392b
8	5287	9.4	—39 26	7.9	8.2	A3	3	..	39925b	58	7861	9.7	—24 31	10.4	10.1	A2	2	..	24494b
9	4902	9.4	—41 21	10.0	11.0	G5	1	..	38418b	59	5473	9.7	—36 53	8.7	9.6	Ko	2	..	18436b
10	4900	9.4	—41 36	9.1	10.0	Ko	2	..	38418b	60	4905	9.7	—41 27	10.0	10.3	F8	2	..	38418b
11	4901	9.4	—41 44	10.0	9.7	A5	2	..	38418b	61	4753	9.7	—47 19	10.5	9.8	Ao	2	..	38415b
12	4517	9.4	—48 46	8.5	8.5	A5	6	..	38415b	62	4752	9.7	—47 23	10.2	10.0	Ao	3	..	38415b
13	2217	9.4	—53 17	9.1	9.1	A	2	..	40275b	63	4215	9.7	—49 59	10.5	10.1	G5	1	..	38415b
14	1343	9.4	—60 48	9.0	10.0	Ko	2	..	40096b	64	1940	9.8	+41 13	8.2	8.6	F5	6	..	37459i
15	1103	9.4	—63 27	9.2	9.2	Ao	2	..	21452b	65	2003	9.8	+11 38	9.0	9.3	F	1	..	38283i
16	983	9.4	—66 27	8.9	8.9	Ao	6	..	21452b	66	2158	9.8	— 1 10	6.99	7.05	A2	7	0,10	37606i
17	393	9.5	+74 26	6.54	7.32	G5	8	..	37714i	67	2623	9.8	— 4 8	8.0	9.1	K2	5	..	19231b
18	515	9.5	+69 30	9.0	10.0	K	1	..	37706i	68	2613	9.8	—18 15	8.6	9.6	Ko	5	..	13154b
19	1486	9.5	+46 5	10.3	11.3	K	1	..	4904m	69	6383	9.8	—27 42	7.7	8.3	Ao	8	..	24494b
20	2572	9.5	— 4 16	9.2	10.0	G5	2	..	19392b	70	5563	9.8	—37 8	9.6	10.1	G5	1	..	18436b
21	2573	9.5	— 5 5	8.05	8.05	Ao	7	..	19231b	71	5075	9.8	—42 22	10.9	10.3	Ao	1	..	38418b
22	6372	9.5	—27 41	7.6	7.7	B9	6	..	24494b	72	4524	9.8	—48 46	10.5	10.2	Ao	2	..	38415b
23	5376	9.5	—38 12	6.46	6.9	Ao	10	..	18436b	73	4218	9.8	—49 42	10.9	11.0	Oa	..	..	76,29
24	4904	9.5	—41 52	6.12	7.4	Ko	9	..	38418b	74	985	9.8	—66 18	8.9	9.2	Fo	4	..	21452b
25	5068	9.5	—42 6	9.0	10.0	K5	2	..	38418b	75	785	9.8	—72 18	8.2	8.3	A2	3	..	22988b
26	5053	9.5	—43 50	10.2	10.1	G5	2	..	38418b	76	1487	9.9	+46 36	9.3	9.8	F8	3	..	4904m
27	604	9.6	+65 53	8.5	8.6	A2	2	..	37517i	77	1851	9.9	+44 32	9.6	10.1	F8	1	..	4904m
28	1327	9.6	+55 31	9.3	9.9	Go	1	..	37705i	78	2168	9.9	+ 2 29	7.62	8.62	Ko	4	..	37606i
29	1850	9.6	+43 59	8.7	9.7	Ko	2	5,1	4904m	79	2826	9.9	— 2 40	9.0	10.0	Ko	4	..	19392b
30	2180	9.6	+40 49	8.7	9.1	F5	2	..	37459i	80	2789	9.9	—14 32	8.0	9.1	K2	3	..	13154b
31	2063	9.6	+24 11	8.7	9.5	G5	2	..	38646i	81	2659	9.9	—19 35	8.0	10.0	G5	2	..	13154b
32	2824	9.6	— 3 6	9.2	9.6	F5	3	..	19392b	82	6996	9.9	—25 47	9.1	9.8	Ao	2	..	24494b
33	2754	9.6	— 6 0	9.2	10.4	K5	1	..	19231b	83	6844	9.9	—26 59	8.9	9.5	F8	2	..	24494b
34	2857	9.6	— 6 23	9.5	9.8	Fo	1	..	19231b	84	5492	9.9	—35 58	8.4	9.6	Ko	2	..	18436b
35	2733	9.6	—21 22	9.1	10.2	Ko	1	..	18977b	85	5292	9.9	—39 59	10.7	10.2	A2	1	..	39925b
36	6374	9.6	—27 33	9.4	10.1	A	1	..	24494b	86	5251	9.9	—44 10	9.1	9.2	B9	4	..	38418b
37	7042	9.6	—29 2	8.3	10.1	K2	2	..	24494b	87	4758	9.9	—47 19	10.5	9.8	Ao	2	..	38415b
38	7314	9.6	—30 41	9.2	9.3	A3	3	..	18927b	88	4523	9.9	—48 30	10.9	10.2	Ao	1	..	38415b
39	5865	9.6	—33 31	9.3	9.3	A2	3	..	18927b	89	4219	9.9	—49 18	10.2	9.7	Go	2	..	38415b
40	5468	9.6	—36 52	9.4	10.2	Ko	1	..	18436b	90	2015	9.9	—55 23	9.1	9.1	Ao	2	..	40275b
41	5071	9.6	—42 52	10.9	10.6	Ao	1	..	38418b	91	986	9.9	—66 40	9.1	9.1	B9	6	..	21452b
42	5073	9.6	—43 3	10.5	10.9	Ko	1	..	38418b	92	1045	9.9	—67 51	9.0	10.0	Ko	3	..	21452b
43	5003	9.6	—46 24	10.5	10.7	A	1	..	38415b	93	795	9.9	—71 46	8.2	8.2	Ao	4	..	22988b
44	5005	9.6	—46 37	9.2	10.0	K2	3	..	38415b	94	497	10.0	+71 30	9.3	9.9	G	2	..	37706i
45	4518	9.6	—48 24	9.0	9.3	F8	3	..	38415b	95	1723	10.0	+28 18	8.5	8.8	F2	3	E	37741i
46	4214	9.6	—49 29	8.8	9.6	Ko	3	..	38415b	96	2860	10.0	— 6 37	9.2	10.4	K5	1	..	19231b
47	4212	9.6	—49 38	10.9	9.6	Ao	2	..	38415b	97	2615	10.0	— 8 20	7.08	7.08	Ao	8	..	18995b
48	1010	9.6	—64 26	9.9	9.9	A	2	..	21452b	98	6998	10.0	—25 48	11.1	10.7	A	1	..	24494b
49	1087	9.6	—65 26	8.7	8.8	A2	5	..	21452b	99	7059	10.0	—31 43	9.1	9.3	G5	2	..	18927b
50	794	9.6	—71 34	7.9	8.3	F5	3	..	22988b	100	7058	10.0	—31 56	10.2	9.3	A3	2	..	18927b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

79600

9^h 10^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4907	10.0	-41 54	8.4	7.9	Go	6	..	38418b	51	3616	10.2	-51 8	11.5	10.1	A2	1	..	38415b
2	4759	10.0	-47 9	10.2	10.4	K2	1	..	38415b	52	2049	10.2	-57 2	8.8	9.1	A3	3	..	38748b
3	3930	10.0	-50 58	10.2	10.1	Ao	1	..	38415b	53	1430	10.2	-58 14	8.5	10.0	K2	3	..	38748b
4	3611	10.0	-51 35	9.1	10.2	K5	1	..	38415b	54	1351	10.2	-60 40	8.3	8.5	Ao	4	..	38748b
5	1926	10.0	-57 18	8.8	9.1	A2	4	..	38748b	55	1192	10.2	-62 30	8.2	8.2	Ao	5	..	21452b
6	1011	10.0	-64 47	8.2	8.2	B9	7	..	21452b	56	1089	10.2	-65 30	8.7	9.7	Ko	3	..	21452b
7	1019	10.0	-69 18	8.8	9.4	Go	4	..	21452b	57	1326	10.3	+53 20	8.9	9.0	A2	4	..	38240i
8	450	10.1	+72 4	8.5	9.6	K2	2	..	37714i	58	1327	10.3	+53 6	8.7	9.1	F5	3	..	38240i
9	583	10.1	+67 39	9.6	10.2	G	1	R	37517i	59	1488	10.3	+46 0	10.3	10.9	G	1	..	4904m
10	2625	10.1	-3 22	9.0	9.3	Fo	4	..	19392b	60	1997	10.3	+21 42	9.1	10.3	K5	1	..	37607i
11	2626	10.1	-3 26	9.5	9.8	F	2	R	19392b	61	2186	10.3	+19 12	8.5	8.6	A3	4	..	37607i
12	2790	10.1	-14 27	9.2	10.2	Ko	2	..	18995b	62	2735	10.3	-21 52	8.2	8.4	Ao	5	..	18977b
13	6187	10.1	-32 8	6.74	8.1	Ko	7	..	18927b	63	7332	10.3	-30 29	9.2	9.6	Ao	2	..	18927b
14	6185	10.1	-33 6	8.1	8.1	F2	6	..	18927b	64	6189	10.3	-33 0	7.9	8.1	A2	6	..	18927b
15	5478	10.1	-36 50	10.7	10.5	Ao	1	..	18436b	65	5037	10.3	-40 15	9.48	10.3	Ko	1	..	39925b
16	5295	10.1	-39 48	9.6	10.0	G	2	..	39925b	66	4913	10.3	-41 18	10.7	10.2	Ao	2	..	38418b
17	5033	10.1	-40 50	10.2	10.3	Ao	2	..	38418b	67	4914	10.3	-41 42	11.1	9.7	A3	2	..	38418b
18	4909	10.1	-41 39	9.0	8.8	A5	5	..	38418b	68	4915	10.3	-42 3	8.4	8.5	F2	5	..	38418b
19	5252	10.1	-44 59	9.64	9.8	A2	2	..	38418b	69	4529	10.3	-48 14	9.6	10.1	Mb	2	..	38415b
20	4956	10.1	-45 6	9.4	10.0	A2	2	..	38418b	70	2227	10.3	-53 34	7.4	8.0	B9	4	..	40275b
21	5010	10.1	-46 55	5.92	6.2	B9	..	1,7-	56,126	71	2100	10.3	-54 40	8.9	9.2	Ao	3	..	40275b
22	4525	10.1	-48 41	7.1	7.8	K5	7	..	38415b	72	1352	10.3	-60 16	9.75	10.9	Ma	1	..	40096b
23	3932	10.1	-50 21	9.4	9.3	Ao	4	..	38415b	73	567	10.3	-74 54	9.4	10.4	Ko	2	..	21453b
24	3614	10.1	-51 46	8.8	9.9	B9	5	..	38415b	74	1180	10.4	+60 28	8.5	9.3	G5	2	..	37705i
25	2074	10.1	-53 5	6.8	7.4	Ao	2	..	42951b	75	1182	10.4	+57 54	7.80	8.80	Ko	4	..	37705i
26	1350	10.1	-60 57	9.8	10.9	K2	1	..	40096b	76	1698	10.4	+45 21	9.8	10.6	G5	1	..	4904m
27	1012	10.1	-64 27	Cl.	Cl.	Con.	6	R	21452b	77	1697	10.4	+45 12	10.3	11.3	Ko	1	..	4904m
28	1088	10.1	-65 46	8.8	10.0	K5	3	..	21452b	78	1734	10.4	+26 53	8.2	8.7	F8	2	..	38630i
29	904	10.1	-68 50	6.6	6.9	F2	10	..	21452b	79	2065	10.4	+23 50	7.50	8.50	Ko	3	..	37607i
30	905	10.1	-69 1	9.1	9.4	Fo	4	..	21452b	80	2293	10.4	+20 29	8.7	9.0	F	2	..	37607i
31	209	10.1	-84 24	8.9	9.3	F5	2	..	22238b	81	2011	10.4	+15 26	8.5	8.8	Fo	4	..	37607i
32	287	10.2	+80 33	8.33	8.83	F8	4	..	37493i	82	1965	10.4	+10 47	7.7	7.8	A2	5	..	38283i
33	1493	10.2	+51 44	9.3	9.4	A3	3	..	38240i	83	2490	10.4	+ 0 3	8.9	10.0	K2	3	..	19392b
34	1820	10.2	+49 8	8.9	9.7	G5	1	..	38240i	84	2161	10.4	- 0 13	8.43	8.57	A5	3	..	19392b
35	2150	10.2	+17 56	8.5	8.9	F5	2	..	37607i	85	2229	10.4	- 1 26	10.2	10.5	F2	2	..	19392b
36	2228	10.2	- 1 56	9.2	9.6	F5	2	..	19392b	86	2630	10.4	- 3 38	9.9	10.0	A3	2	..	19392b
37	2628	10.2	- 3 33	8.6	10.0	Mc	5	..	19392b	87	2862	10.4	- 6 31	8.4	9.5	K2	2	..	19231b
38	2627	10.2	- 3 56	9.9	10.2	Fo	1	..	19392b	88	2618	10.4	- 8 39	8.0	8.1	A3	7	..	18995b
39	2588	10.2	-11 43	9.9	10.0	A5	2	..	18995b	89	2777	10.4	- 9 42	9.1	10.1	Ko	1	..	19231b
40	8175	10.2	-23 32	8.9	9.9	K5	1	..	18977b	90	2839	10.4	-12 27	8.6	8.9	Fo	4	..	18995b
41	6999	10.2	-25 33	8.9	10.1	K5	2	..	24494b	91	2542	10.4	-22 23	8.14	9.6	K5	2	..	18977b
42	7051	10.2	-28 16	9.7	10.1	F5	1	..	24494b	92	5388	10.4	-38 7	8.8	8.2	B9	5	..	18436b
43	7264	10.2	-29 24	8.5	9.3	K2	3	..	24494b	93	5302	10.4	-39 57	8.38	8.5	B9	6	..	18436b
44	7329	10.2	-31 6	9.1	9.6	Ao	2	..	18927b	94	5068	10.4	-43 44	5.94	6.4	B5	..	3,5-	56,126
45	7061	10.2	-31 53	9.5	9.9	G5	1	..	18927b	95	5262	10.4	-44 6	10.9	10.1	A3	1	..	38418b
46	5258	10.2	-44 50	10.5	10.0	A	1	R	38418b	96	5264	10.4	-44 37	9.4	9.8	G	1	..	38418b
47	4957	10.2	-45 46	9.6	9.8	Ko	3	5,1	38415b	97	4224	10.4	-49 48	9.0	9.0	F5	5	..	38415b
48	5011	10.2	-46 17	10.2	10.4	Ko	2	..	38415b	98	1432	10.4	-59 0	5.58	6.6	G5	..	0,8	28,203
49	5013	10.2	-46 31	10.9	10.7	A	1	..	38415b	99	1353	10.4	-60 30	6.53	6.1	Ao	9	..	13026b
50	4221	10.2	-49 29	10.5	10.1	Ao	2	..	38415b	100	1354	10.4	-60 40	8.5	8.8	A2	3	..	38748b

THE HENRY DRAPER CATALOGUE.

79700

9^h 10^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1206	m. 10.4	° -61 51	9.9	11.0	K ₂	1	..	40096b	51	2786	m. 10.7	° -10 39	8.7	9.9	K ₅	1	..	18995b
2	1183	10.5	+58 20	7.62	8.40	G ₅	4	..	37705i	52	2793	10.7	-14 36	6.23	6.23	Ao	10	..	13154b
3	2631	10.5	-3 41	9.7	10.3	Go	1	..	19392b	53	2618	10.7	-19 11	7.37	7.9	B ₉	8	..	13154b
4	2756	10.5	-5 17	9.40	10.40	Ko	1	..	19231b	54	5885	10.7	-33 15	9.8	8.7	Ao	3	..	18927b
5	2768	10.5	-7 25	9.0	9.3	F ₂	4	..	19231b	55	5504	10.7	-35 33	7.21	7.4	Ao	6	0,8	9427b
6	2767	10.5	-7 35	9.9	10.3	F ₅	1	..	19231b	56	5502	10.7	-35 41	10.0	9.6	Ao	2	..	18436b
7	2766	10.5	-8 4	6.88	7.16	Fo	7	0,8	19231b	57	5572	10.7	-37 18	8.7	9.0	Ko	3	..	18436b
8	2743	10.5	-15 34	9.5	10.7	K ₅	1	..	18995b	58	4921	10.7	-41 28	7.8	7.5	A ₅	8	..	38418b
9	2660	10.5	-19 42	7.34	7.5	Ao	9	..	13154b	59	4770	10.7	-47 33	10.9	10.4	Ao	1	..	38415b
10	7056	10.5	-28 46	8.3	8.9	Ao	3	..	24494b	60	4536	10.7	-48 49	11.5	9.4	Ao	3	..	38415b
11	7270	10.5	-29 45	7.6	9.0	Mb	4	..	24494b	61	3944	10.7	-50 11	8.74	9.6	Ko	2	..	38415b
12	5717	10.5	-34 28	9.0	9.6	G ₅	2	..	18927b	62	3942	10.7	-50 34	10.5	10.1	A ₃	1	..	38415b
13	5304	10.5	-39 47	9.0	9.1	Ao	2	..	39925b	63	1658	10.8	+47 14	5.70	5.70	Ao	8	..	38240i
14	4917	10.5	-41 49	10.0	8.5	Fo	4	..	38418b	64	1489	10.8	+46 4	10.3	10.9	G	1	..	4904m
15	4916	10.5	-42 1	10.7	10.3	Ao	1	..	38418b	65	2187	10.8	+19 14	6.87	6.95	A ₃	8	..	37607i
16	5014	10.5	-46 43	9.6	9.8	A ₂	2	..	38415b	66	2795	10.8	-13 33	8.5	8.6	A ₂	7	..	18995b
17	4768	10.5	-47 55	9.8	9.3	A ₂	4	..	38415b	67	2794	10.8	-14 56	9.2	9.3	A ₂	2	..	13154b
18	2052	10.5	-56 15	9.7	9.7	A	1	E	40275b	68	7273	10.8	-29 57	7.70	8.1	Ao	8	..	24494b
19	1047	10.5	-67 18	7.0	7.3	Fo	10	..	21452b	69	6196	10.8	-32 39	7.53	8.4	Ko	6	..	18927b
20	499	10.6	+70 49	9.3	9.9	G	2	..	37706i	70	5396	10.8	-38 27	10.2	10.3	G ₅	1	..	39925b
21	1184	10.6	+58 29	8.9	9.9	Ko	2	E	38224i	71	4922	10.8	-41 12	10.7	10.6	A	1	..	38418b
22	1749	10.6	+48 45	8.3	9.3	Ko	2	..	38240i	72	5019	10.8	-46 36	9.4	8.9	B ₉	3	..	38415b
23	1901	10.6	+43 30	8.7	9.7	Ko	7	0,2	4904m	73	4771	10.8	-47 13	10.9	10.4	A ₂	1	..	38415b
24	1900	10.6	+43 22	8.9	9.9	Ko	5	0,2	4904m	74	4231	10.8	-49 56	9.1	9.0	A	6	..	38415b
25	1959	10.6	+37 28	8.2	8.5	Fo	4	..	37345i	75	4232	10.8	-49 56	9.1	9.0	A	6	..	38415b
26	2057	10.6	+14 33	8.3	8.9	Go	3	..	38283i	76	3946	10.8	-50 46	9.4	10.1	Ko	1	..	38415b
27	2163	10.6	-0 49	8.7	9.5	G ₅	3	..	19392b	77	2108	10.8	-54 19	9.0	9.1	Ao	3	..	40275b
28	2164	10.6	-0 49	8.7	9.5	G ₅	2	..	19392b	78	2028	10.8	-55 7	8.26	8.0	B	3	..	39868b
29	2619	10.6	-8 20	7.8	7.9	A ₂	7	..	18995b	79	1315	10.8	-59 46	9.0	8.6	Ko	2	..	41151b
30	2794	10.6	-13 42	8.7	9.9	K ₅	3	..	18995b	80	907	10.8	-68 20	7.7	8.8	K ₂	5	..	21452b
31	2799	10.6	-17 33	9.0	9.8	G ₅	2	..	13154b	81	835	10.9	+63 16	8.1	8.5	F ₅	4	..	37517i
32	5884	10.6	-33 16	9.3	10.5	Ma	1	..	18927b	82	2073	10.9	+25 3	8.7	9.7	Ko	2	..	38646i
33	5392	10.6	-38 27	10.2	10.3	Go	1	..	39925b	83	2068	10.9	+23 20	8.0	8.3	Fo	2	..	37607i
34	5084	10.6	-42 36	10.9	10.3	A ₂	1	..	38418b	84	2155	10.9	+4 15	8.9	9.9	K	1	..	37606i
35	5086	10.6	-42 49	5.15	4.98	B ₃	..	2,6 R	28,203	85	2172	10.9	+2 8	8.5	8.6	A ₃	2	..	37606i
36	5269	10.6	-44 39	9.0	8.6	F ₈	4	..	38418b	86	2577	10.9	-4 18	10.4	10.8	F ₅	1	..	19392b
37	4534	10.6	-49 4	7.8	9.0	Ko	7	..	38415b	87	7880	10.9	-24 7	9.4	9.6	A ₃	2	..	24494b
38	4229	10.6	-49 17	9.8	9.3	F ₅	4	..	38415b	88	5071	10.9	-43 25	11.5	10.1	A ₂	1	..	38418b
39	3941	10.6	-50 28	9.0	9.9	Ko	2	..	38415b	89	5072	10.9	-43 32	8.6	9.2	Ko	2	..	38418b
40	2106	10.6	-54 47	8.1	8.8	Ao	4	..	39868b	90	5276	10.9	-44 13	11.5	10.1	A ₃	2	..	38418b
41	1358	10.6	-60 15	9.15	9.4	Ao	2	..	38748b	91	4966	10.9	-45 56	9.1	9.5	B ₈	3	..	38415b
42	990	10.6	-66 19	8.8	9.2	F ₅	5	..	21452b	92	5020	10.9	-47 0	8.8	8.4	B ₈	6	..	38415b
43	906	10.6	-68 47	7.2	7.6	F ₅	8	..	21452b	93	4234	10.9	-49 30	10.2	9.1	Ao	3	..	38415b
44	485	10.6	-77 55	9.4	9.7	F ₂	4	..	21453b	94	2029	10.9	-56 0	9.0	9.1	A	2	E	40275b
45	1969	10.7	+35 34	8.6	8.9	F ₂	3	..	37345i	95	1207	10.9	-61 30	9.4	9.4	B ₉	2	..	40096b
46	2013	10.7	+15 31	8.5	8.6	A ₂	2	..	37607i	96	1208	10.9	-62 0	8.8	9.1	F ₈	3	..	40096b
47	2099	10.7	+6 57	8.3	9.5	K ₅	1	..	37606i	97	1194	10.9	-62 15	9.1	9.1	Ao	2	..	40096b
48	2177	10.7	+2 58	8.5	9.5	Ko	2	..	37606i	98	1111	11.0	+61 18	8.1	8.2	A ₂	3	E	37705i
49	2165	10.7	-0 56	8.7	9.8	K ₂	4	..	19392b	99	1902	11.0	+43 4	9.8	10.4	Go	2	..	4904m
50	2576	10.7	-5 0	8.6	9.8	K ₅	4	..	19231b	100	1839	11.0	+30 47	7.8	7.8	Ao	5	..	37741i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

79800

9^h 11^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2166	11.0	- 0 33	8.7	9.7	Ko	4	..	19392b	51	1961	11.4	+ 31 42	7.9	8.9	Ko	3	..	37741i
2	2230	11.0	- 1 25	9.2	9.3	A5	4	..	19392b	52	2266	11.4	+ 1 0	8.9	9.2	Fo	1	..	19392b
3	2579	11.0	- 4 27	9.1	10.1	Ko	4	0,1	19392b	53	2635	11.4	- 4 7	8.0	9.0	Ko	4	..	19231b
4	2841	11.0	-12 43	7.54	8.61	K2	8	..	18995b	54	2761	11.4	- 5 36	9.5	9.9	F5	1	..	19231b
5	2801	11.0	-18 3	9.2	10.2	Ko	1	..	13154b	55	2622	11.4	- 8 40	9.0	10.0	Ko	1	..	19231b
6	6407	11.0	-27 34	8.9	9.6	A2	3	..	24494b	56	2835	11.4	-21 6	8.12	9.0	K5	2	..	18977b
7	5578	11.0	-37 11	6.04	6.8	Go	..	0,10	28,203	57	6208	11.4	-32 54	7.04	8.1	K2	7	..	18927b
8	5397	11.0	-38 57	9.4	10.5	Ko	1	..	39925b	58	5056	11.4	-40 9	10.7	10.3	Ao	1	..	39925b
9	5045	11.0	-41 1	9.3	10.2	Ko	2	..	38418b	59	5103	11.4	-42 44	10.9	10.5	Fo	1	..	38418b
10	5095	11.0	-43 3	7.4	7.9	Ko	7	..	38418b	60	5102	11.4	-43 1	9.4	9.7	Ko	3	..	38418b
11	4971	11.0	-45 9	9.14	9.5	B8	2	..	38418b	61	5087	11.4	-44 3	10.9	10.4	Fo	1	..	38418b
12	5025	11.0	-46 38	10.2	10.1	Fo	2	..	38415b	62	5284	11.4	-44 19	10.9	10.0	Fo	1	..	38418b
13	2033	11.0	-55 16	8.46	8.5	Ao	2	..	39868b	63	1364	11.4	-60 18	9.4	10.2	G5	1	..	40096b
14	2591	11.1	-11 13	8.6	8.6	Ao	4	..	18995b	64	1366	11.4	-60 52	7.2	7.1	B8	6	0,7	13026b
15	2544	11.1	-23 4	7.72	7.6	Ao	7	..	18977b	65	1106	11.4	-63 47	8.2	9.2	Ko	4	..	21452b
16	5495	11.1	-36 44	10.0	9.9	Ao	1	..	18436b	66	992	11.4	-67 5	9.0	9.4	F5	3	..	21452b
17	5079	11.1	-43 13	10.0	9.8	A3	2	..	38418b	67	1049	11.4	-67 16	9.7	10.0	Fo	2	..	21452b
18	5279	11.1	-44 25	10.9	10.1	Ao	1	..	38418b	68	248	11.5	+83 7	8.6	9.0	F5	3	..	37546i
19	4973	11.1	-45 48	9.6	9.8	F5	2	..	38415b	69	268	11.5	+82 18	8.7	9.0	F2	3	..	37493i
20	4776	11.1	-47 24	9.4	9.3	F8	4	..	38415b	70	370	11.5	+75 20	7.38	7.44	A2	8	R	37714i
21	1360	11.1	-60 34	9.5	10.7	K5	1	..	40096b	71	584	11.5	+67 12	8.5	9.1	Go	5	..	37517i
22	991	11.1	-66 26	9.4	10.0	Go	2	..	21452b	72	2068	11.5	+24 4	7.20	7.62	F5	5	..	37607i
23	2580	11.2	- 4 27	8.6	9.6	Ko	3	..	19231b	73	2267	11.5	+ 1 9	6.54	6.96	F5	8	..	37606i
24	2759	11.2	- 5 27	9.2	9.5	F2	1	..	19231b	74	2231	11.5	- 1 45	9.9	10.9	Ko	1	..	19392b
25	2772	11.2	- 7 56	7.08	7.22	A5	8	2,6	18995b	75	2829	11.5	- 2 16	8.4	9.4	Ko	5	..	19392b
26	2592	11.2	-11 49	9.2	10.0	G5	3	..	18995b	76	2636	11.5	- 3 59	8.0	9.1	K2	3	..	19231b
27	2800	11.2	-13 12	10.1	10.1	Ao	2	..	18995b	77	2584	11.5	- 4 53	9.5	10.1	Go	2	..	19392b
28	5313	11.2	-39 42	9.3	10.3	K2	1	..	39925b	78	2796	11.5	-14 37	10.1	11.2	K2	1	..	18995b
29	5314	11.2	-39 52	8.5	8.3	Ao	5	..	18436b	79	2625	11.5	-19 7	9.7	10.5	G5	1	..	13154b
30	4930	11.2	-41 24	11.4	10.7	A	1	..	38418b	80	5515	11.5	-35 17	10.4	10.2	Ao	1	..	18436b
31	5281	11.2	-44 12	9.4	9.3	B9	3	..	38418b	81	5057	11.5	-40 48	10.0	9.7	Ao	3	..	38418b
32	4975	11.2	-45 32	10.2	9.5	Ao	2	..	38418b	82	4979	11.5	-45 57	9.2	9.2	F8	3	..	38415b
33	4544	11.2	-48 16	10.5	10.5	A2	1	..	38415b	83	5031	11.5	-46 23	10.2	10.4	G5	2	..	38415b
34	3950	11.2	-50 27	10.5	10.2	Ko	1	..	38415b	84	4243	11.5	-49 54	11.5	9.9	Ao	1	..	38415b
35	2034	11.2	-55 40	8.3	9.7	K5	1	E	40275b	85	3643	11.5	-51 53	9.0	8.7	B9	4	..	38415b
36	1361	11.2	-60 48	8.3	8.2	Ao	4	2,3	13026b	86	364	11.6	+77 39	8.5	8.8	F2	4	..	37714i
37	183	11.2	-85 16	5.38	5.66	Fo	9	2,R	11010b	87	1064	11.6	+62 1	7.7	8.7	Ko	3	..	37517i
38	1909	11.3	+33 56	6.84	7.62	G5	6	..	37741i	88	1821	11.6	+49 21	8.6	9.6	Ko	1	..	38240i
39	2155	11.3	+18 34	8.1	8.9	G5	3	..	37607i	89	1490	11.6	+46 35	8.7	8.8	A3	7	0,2	4904m
40	2167	11.3	- 0 48	8.9	10.0	K2	2	..	19392b	90	1990	11.6	+42 29	8.5	8.6	A5	4	..	37459i
41	2801	11.3	-13 37	10.1	10.4	F	1	..	18995b	91	2233	11.6	- 1 42	9.2	10.2	Ko	1	..	19392b
42	6411	11.3	-28 1	9.2	10.1	Fo	2	..	24494b	92	2639	11.6	- 3 39	9.7	10.3	Go	1	..	19392b
43	5895	11.3	-33 56	8.2	9.0	K2	3	..	18927b	93	2789	11.6	-10 36	8.6	9.8	K5	1	..	18995b
44	4546	11.3	-48 37	10.2	9.9	F5	2	..	38415b	94	6881	11.6	-26 47	7.74	8.6	Ko	4	..	24494b
45	2112	11.3	-54 15	8.9	9.4	Go	2	..	40275b	95	6415	11.6	-27 47	8.09	9.2	Ko	3	..	24494b
46	2035	11.3	-55 9	5.20	7.0	Ko	..	0,7	28,203	96	7087	11.6	-31 48	8.1	8.7	Ko	4	..	18927b
47	1363	11.3	-60 55	9.0	10.2	Ko	2	..	40096b	97	5517	11.6	-35 56	10.2	10.4	A3	1	..	39925b
48	1211	11.3	-61 16	8.9	9.1	Ao	3	..	40096b	98	5588	11.6	-37 48	9.4	9.6	Fo	2	..	18436b
49	569	11.3	-74 47	8.7	9.8	K2	4	..	21453b	99	5105	11.6	-42 21	9.4	9.7	Fo	3	..	38418b
50	2226	11.4	+39 38	7.97	8.39	F5	4	..	37345i	100	4982	11.6	-45 8	6.34	6.8	Ao	5	2,6	4947b

THE HENRY DRAPER CATALOGUE.

79900

9^h 11^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4783	11.6	-48 5	8.6	9.0	B9	6	..	38415b	51	1198	11.8	-62 47	8.9	9.9	Ko	1	..	40096b
2	4246	11.6	-49 32	10.0	9.6	Ao	2	..	38415b	52	994	11.8	-66 10	9.2	9.7	F8	2	..	21452b
3	2116	11.6	-52 51	9.4	9.4	Ao	2	E	40275b	53	1328	11.9	+52 55	9.0	9.3	F	2	E	38240i
4	1436	11.6	-58 29	9.1	10.0	A5	1	..	38748b	54	2066	11.9	+13 30	8.7	9.7	Ko	1	..	38283i
5	1367	11.6	-60 7	7.55	7.5	B9	6	1,5	38748b	55	2101	11.9	+7 42	8.9	9.4	F8	2	..	9462b
6	1369	11.6	-60 29	8.4	9.4	K5	2	..	38748b	56	2102	11.9	+7 39	8.6	9.1	F8	4	..	9462b
7	456	11.7	+73 17	9.5	9.9	F5	2	..	37714i	57	2641	11.9	-3 47	9.2	9.3	A3	3	R	19392b
8	1737	11.7	+26 52	8.7	9.9	K5	1	..	38646i	58	2793	11.9	-10 31	8.7	9.7	Ko	2	..	18995b
9	2169	11.7	-0 24	8.9	9.4	F8	5	..	19392b	59	5906	11.9	-33 25	9.3	10.1	K5	1	..	18927b
10	2762	11.7	-5 56	5.40	6.40	Ko	10	..	19231b	60	5738	11.9	-34 18	10.0	9.9	A3	2	..	18927b
11	2872	11.7	-6 18	8.6	9.7	K2	3	..	19231b	61	5590	11.9	-37 13	6.98	7.5	Ko	6	..	18436b
12	2790	11.7	-10 54	9.9	9.9	Ao	2	..	18995b	62	4940	11.9	-41 37	10.7	10.3	A2	1	..	38418b
13	2594	11.7	-11 31	8.7	9.7	Ko	3	..	18995b	63	5093	11.9	-43 49	9.4	9.0	B9	4	..	38418b
14	2804	11.7	-13 25	6.73	6.79	A2	10	..	18995b	64	4785	11.9	-47 19	10.5	9.8	A5	4	..	38415b
15	2836	11.7	-20 47	7.88	8.4	F5	6	..	18977b	65	1943	11.9	-57 15	8.4	9.2	K5	3	..	38748b
16	6883	11.7	-26 28	10.2	10.4	Ao	1	..	24494b	66	1108	11.9	-63 47	8.3	8.9	Go	3	..	21452b
17	5408	11.7	-38 9	4.98	6.6	Ko	..	R	28,203	67	1109	11.9	-63 57	8.6	9.2	Go	3	..	21452b
18	5035	11.7	-46 42	10.9	10.7	Ao	1	..	38415b	68	703	12.0	+65 28	7.62	8.40	G5	5	..	37517i
19	4547	11.7	-48 11	10.5	9.6	A	3	..	38415b	69	1883	12.0	+29 0	7.26	8.26	Ko	5	..	37741i
20	2120	11.7	-52 16	9.9	9.9	B9	3	..	38415b	70	1922	12.0	+26 25	9.2	10.0	G5	2	..	38646i
21	2241	11.7	-53 14	9.1	9.1	F8	2	E	40275b	71	2182	12.0	+3 6	7.9	8.2	Fo	5	..	37606i
22	2058	11.7	-56 49	8.7	8.8	Ao	5	..	38748b	72	2173	12.0	+2 22	6.84	7.12	Fo	7	..	37606i
23	1107	11.7	-63 16	8.9	9.7	G5	2	..	21452b	73	2830	12.0	-3 7	9.2	10.2	Ko	1	..	19392b
24	993	11.7	-66 23	9.4	9.4	B9	3	..	21452b	74	2845	12.0	-12 53	9.7	10.7	Ko	1	..	18995b
25	572	11.7	-73 18	8.6	9.8	K5	1	..	22988b	75	2805	12.0	-13 27	9.0	9.0	Ao	6	..	18995b
26	487	11.7	-77 6	9.7	9.8	A3	3	..	21453b	76	2735	12.0	-16 25	8.4	8.4	B9	7	..	13154b
27	1229	11.8	+58 50	8.8	9.4	Go	2	..	38224i	77	7895	12.0	-24 53	8.5	9.8	G5	3	..	24494b
28	2184	11.8	+40 35	8.2	9.3	K2	2	..	37459i	78	5299	12.0	-44 30	9.0	9.6	Ko	1	..	38418b
29	1729	11.8	+27 51	6.53	6.95	F5	8	..	37741i	79	5037	12.0	-46 26	10.0	9.6	Ao	3	..	38415b
30	2052	11.8	+16 58	8.7	9.2	F8	2	..	37607i	80	4786	12.0	-47 57	10.5	10.4	Ao	3	..	38415b
31	2623	11.8	-8 19	5.54	5.52	B9	..	..	56,86	81	4552	12.0	-48 33	10.5	9.6	A2	2	..	38415b
32	2792	11.8	-10 45	9.0	9.3	Fo	3	..	18995b	82	2126	12.0	-52 54	7.9	8.1	Ao	4	0,7	42951b
33	2629	11.8	-19 2	7.26	7.60	F2	8	..	13154b	83	2060	12.0	-56 48	9.1	9.4	B9	3	..	38748b
34	2550	11.8	-22 43	7.6	8.5	A5	4	..	18977b	84	1322	12.0	-59 58	9.26	9.2	Ao	1	..	38748b
35	7084	11.8	-28 28	7.24	7.5	Ao	8	..	24494b	85	1110	12.0	-63 17	7.5	8.3	G5	6	..	21452b
36	7359	11.8	-31 5	9.5	9.7	F8	1	..	18927b	86	570	12.0	-74 12	7.9	7.9	Ao	5	..	21453b
37	5735	11.8	-35 1	8.69	9.1	Ao	4	..	18436b	87	348	12.1	+76 6	8.2	8.2	Ao	6	..	37714i
38	5519	11.8	-36 0	10.4	9.9	Ao	3	..	18436b	88	1329	12.1	+53 7	9.5	10.5	Ko	1	..	38650i
39	5507	11.8	-36 49	9.1	9.9	K2	1	..	18436b	89	1732	12.1	+28 35	8.9	9.3	F5	2	..	37741i
40	5505	11.8	-37 0	4.70	5.12	F5	..	R	28,203	90	2072	12.1	+23 30	7.13	8.13	Ko	4	..	37607i
41	5411	11.8	-38 52	9.3	9.4	Ao	4	..	18436b	91	2072	12.1	+22 13	8.1	8.9	G5	2	..	37607i
42	5295	11.8	-44 29	9.0	8.7	Ao	4	..	38418b	92	2053	12.1	+17 8	7.9	7.9	Ao	5	..	37607i
43	3645	11.8	-51 9	9.6	9.4	Ao	1	..	38415b	93	2788	12.1	-9 12	7.64	8.64	Ko	6	..	18995b
44	3646	11.8	-51 12	9.6	9.6	A	1	..	38415b	94	2794	12.1	-10 41	6.55	7.55	Ko	8	..	18995b
45	2247	11.8	-53 8	9.4	9.4	Ao	1	E	40275b	95	2847	12.1	-12 38	9.5	10.5	K	1	..	18995b
46	2037	11.8	-55 13	7.11	7.2	B8	5	..	39868b	96	2804	12.1	-17 15	9.0	10.1	K2	1	..	13154b
47	1439	11.8	-58 24	10.1	10.2	A2	2	..	38748b	97	7088	12.1	-28 23	8.5	9.2	A5	3	..	24494b
48	1321	11.8	-59 33	8.1	8.8	Fo	3	..	41151b	98	5109	12.1	-42 36	9.4	9.7	A2	3	..	38418b
49	1370	11.8	-60 32	9.9	10.0	A2	2	..	40096b	99	4991	12.1	-45 36	9.6	9.5	A3	2	..	38418b
50	1212	11.8	-61 42	8.9	9.1	Ao	3	..	40096b	100	5039	12.1	-46 55	10.9	10.7	A2	1	..	38415b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

80000

9^h 12^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5040	12.1	-47 4	8.2	9.3	Ko	4	..	38415b	51	2803	12.4	-14 42	9.5	10.3	G5	1	..	18995b
2	4790	12.1	-47 47	10.9	10.7	G5	1	..	38415b	52	2632	12.4	-18 42	9.7	10.5	G5	1	..	13154b
3	3651	12.1	-51 37	10.5	9.9	Ao	1	..	38415b	53	6224	12.4	-33 5	9.4	8.7	Ao	3	..	18927b
4	2062	12.1	-56 40	8.8	9.4	F8	3	..	38748b	54	5421	12.4	-38 21	9.8	9.7	F2	2	..	18436b
5	1200	12.1	-62 19	9.4	9.4	Ao	3	..	40096b	55	5099	12.4	-43 8	9.1	8.7	Ao	5	..	38418b
6	1050	12.1	-67 24	9.5	10.0	F8	1	..	21452b	56	5097	12.4	-43 15	8.8	8.3	B9	6	..	38418b
7	1023	12.1	-69 18	1.80	1.80	Ao	..	O, R	28,203	57	5305	12.4	-44 29	6.03	6.7	B5	6	4,4	46200b
8	1701	12.2	+45 14	9.3	10.4	K2	1	..	4904m	58	1202	12.4	-62 45	9.3	9.4	A3	2	..	40096b
9	2197	12.2	+ 8 47	7.7	8.7	Ko	4	E	38198i	59	1111	12.4	-63 26	8.5	9.5	Ko	3	..	21452b
10	2142	12.2	+ 5 53	8.9	9.0	A3	2	..	9462b	60	1017	12.4	-64 38	7.2	8.2	Ko	8	..	21452b
11	2833	12.2	- 3 7	9.2	10.3	K2	2	..	19392b	61	1093	12.4	-65 45	9.1	9.4	F2	5	..	21452b
12	2625	12.2	- 8 49	9.5	9.5	Ao	2	..	19231b	62	569	12.4	-75 16	9.63	9.6	Ao	5	..	21453b
13	2807	12.2	-14 1	9.1	9.7	Go	4	..	18995b	63	1994	12.5	+42 7	8.1	9.1	Ko	2	..	37459i
14	2800	12.2	-14 59	9.5	10.3	G5	1	E	18995b	64	2009	12.5	+11 55	6.29	6.29	Ao	9	..	38283i
15	5328	12.2	-39 7	9.0	9.7	Fo	2	..	18436b	65	2199	12.5	+ 8 22	7.19	7.97	G5	6	0,5	9462b
16	5063	12.2	-40 45	9.4	10.3	G5	1	..	38418b	66	2174	12.5	+ 2 3	8.3	8.6	Fo	2	..	37606i
17	5112	12.2	-42 33	10.2	10.3	A	1	..	38418b	67	2796	12.5	-10 19	9.51	9.59	A3	3	..	18995b
18	4791	12.2	-47 53	8.9	10.0	Ko	2	..	38415b	68	2600	12.5	-11 35	9.5	9.6	A5	4	..	18995b
19	1372	12.2	-61 5	8.5	9.1	Ao	4	..	38748b	69	6422	12.5	-28 1	8.1	8.6	A5	5	..	24494b
20	792	12.2	-72 23	7.5	8.6	K2	2	..	22988b	70	7296	12.5	-29 32	9.4	9.6	K2	2	..	24494b
21	500	12.3	+71 20	9.5	10.3	G5	1	..	37706i	71	5602	12.5	-37 46	9.8	9.6	F2	1	..	18436b
22	1380	12.3	+52 3	8.3	8.6	Fo	4	..	38240i	72	5422	12.5	-38 14	9.4	10.3	Ma	1	..	18436b
23	2021	12.3	+38 32	8.7	8.7	Ao	2	..	37345i	73	5045	12.5	-46 25	9.6	10.1	A5	1	..	38415b
24	1971	12.3	+35 47	5.76	5.90	A5	9	..	37345i	74	4793	12.5	-47 37	10.2	10.1	Fo	2	..	38415b
25	2151	12.3	+ 9 47	8.72	8.72	Ao	3	..	38283i	75	4558	12.5	-48 9	9.6	9.3	Ao	3	..	38415b
26	..	12.3	- 1 22	..	..	Fo	3	..	19392b	76	4557	12.5	-48 36	10.2	9.6	A2	2	..	38415b
27	2234	12.3	- 2 9	9.9	10.0	A3	3	..	19392b	77	4264	12.5	-49 33	7.9	9.0	B	4	R	38415b
28	2644	12.3	- 3 47	9.5	9.8	Fo	2	..	19392b	78	1112	12.5	-63 44	8.2	8.2	B9	7	..	21452b
29	2586	12.3	- 4 59	9.2	10.3	K2	1	..	19392b	79	1660	12.6	+47 23	6.93	6.93	Ao	6	..	38240i
30	2802	12.3	-15 5	8.06	9.13	K2	2	..	13154b	80	1903	12.6	+42 56	8.8	9.9	K2	1	..	38639i
31	2737	12.3	-16 11	9.5	9.5	Ao	2	..	13154b	81	1965	12.6	+37 14	3.82	3.88	A2	..	..	2505c
32	2745	12.3	-21 32	7.98	8.4	Ao	6	..	18977b	82	2194	12.6	+19 13	7.9	8.2	Fo	4	..	37607i
33	7291	12.3	-29 43	8.7	9.0	Ko	4	..	24494b	83	2875	12.6	- 7 3	8.8	8.8	B9	5	..	19231b
34	6220	12.3	-32 33	9.6	9.3	F5	1	..	18927b	84	2752	12.6	-15 54	8.6	9.6	Ko	1	..	13154b
35	5912	12.3	-33 32	10.9	9.3	A2	1	..	18927b	85	7297	12.6	-30 5	9.5	9.6	F8	2	..	13281b
36	5330	12.3	-39 40	10.0	9.4	A3	2	..	18436b	86	5533	12.6	-35 21	8.7	9.9	G5	2	..	18436b
37	4941	12.3	-41 58	10.4	10.2	A3	2	..	38418b	87	5102	12.6	-43 9	9.6	10.0	G5	1	..	38418b
38	5043	12.3	-46 29	9.8	9.8	Ko	1	R	38415b	88	5047	12.6	-46 56	10.0	10.9	Ko	1	..	38415b
39	1947	12.3	-57 16	8.9	9.5	K2	1	..	38748b	89	4560	12.6	-48 16	9.8	9.6	A3	2	..	38415b
40	1445	12.3	-58 26	8.8	9.5	Ao	3	..	38748b	90	3963	12.6	-50 55	9.2	9.6	Ko	2	..	38415b
41	1092	12.3	-65 57	9.1	10.2	K2	1	..	21452b	91	2149	12.6	-53 4	8.7	9.6	Ko	2	E	40275b
42	836	12.4	+62 56	7.9	8.4	F8	4	..	37517i	92	2130	12.6	-54 33	8.8	8.8	A	4	R	39868b
43	1702	12.4	+45 3	9.0	9.6	Go	2	..	4904m	93	2044	12.6	-55 50	7.9	8.9	K5	2	..	39868b
44	2160	12.4	+18 28	8.5	9.5	K	1	..	37607i	94	1949	12.6	-57 58	6.06	5.8	B5	..	..	28,203
45	2062	12.4	+14 4	8.9	9.4	F8	2	..	38283i	95	1446	12.6	-58 24	8.8	10.6	F2	5	..	38748b
46	2271	12.4	+ 0 59	6.92	6.92	Ao	8	..	37606i	96	1327	12.6	-59 51	10.3	10.3	Ao	2	..	40096b
47	2170	12.4	- 1 0	10.6	11.4	G5	2	..	19392b	97	1094	12.6	-65 59	9.4	9.7	Fo	3	..	21452b
48	2645	12.4	- 3 14	9.5	9.8	Fo	5	..	19392b	98	572	12.6	-74 26	8.7	9.8	K2	3	..	21453b
49	2848	12.4	-13 3	9.5	9.6	A3	2	..	18995b	99	184	12.6	-85 21	9.0	9.3	F2	3	..	22238b
50	2808	12.4	-14 9	5.97	6.97	Ko	7	..	21367b	100	155	12.6	-86 10	8.6	9.6	Ko	3	..	15145b

THE HENRY DRAPER CATALOGUE.

80100

9^h 12^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1845	12.7	+30 10	8.5	9.1	G	1	..	37741i	51	2852	13.0	-12 58	9.0	9.3	Fo	4	..	18995b
2	2835	12.7	- 2 32	9.9	10.3	F5	2	..	19392b	52	2811	13.0	-13 12	10.8	10.8	A	1	..	18995b
3	2834	12.7	- 3 8	10.1	10.7	Go	1	..	19392b	53	4952	13.0	-41 6	8.7	10.2	K2	2	..	38418b
4	2587	12.7	- 5 9	8.60	9.78	K5	2	..	19231b	54	5127	13.0	-42 27	10.0	10.3	Go	2	..	38418b
5	2601	12.7	-11 32	7.32	8.32	Ko	7	..	18995b	55	5125	13.0	-42 51	10.5	10.3	G5	1	..	38418b
6	2844	12.7	-20 48	9.2	9.0	A5	2	..	18977b	56	5112	13.0	-44 1	9.1	8.7	Ao	4	..	38418b
7	7379	12.7	-31 5	9.4	10.2	K5	1	..	18927b	57	2049	13.0	-55 8	8.28	8.5	F5	2	..	39868b
8	5103	12.7	-43 51	5.01	7.0	K5	..	0,2-	28,203	58	1219	13.0	-61 11	8.7	9.2	Ao	3	..	40096b
9	5048	12.7	-46 52	9.6	10.4	K2	2	..	38415b	59	1096	13.0	-65 41	8.7	8.8	A2	6	..	21452b
10	4267	12.7	-49 54	10.2	9.9	Ao	2	..	38415b	60	802	13.0	-71 12	7.2	7.2	Ao	6	..	22988b
11	1095	12.7	-65 27	8.6	8.6	B8	6	..	21452b	61	1751	13.1	+48 31	8.5	9.5	Ko	2	..	38240i
12	1051	12.7	-68 3	10.8	10.8	A	1	..	21452b	62	2108	13.1	+ 7 30	8.7	9.0	F2	3	..	9462b
13	295	12.8	+80 58	8.8	9.8	Ko	2	..	37493i	63	2274	13.1	+ 1 8	7.9	8.9	Ko	3	..	37606i
14	394	12.8	+73 58	9.6	10.2	G	2	..	37714i	64	2174	13.1	- 0 11	8.48	9.66	K5	4	..	19392b
15	2231	12.8	+39 3	8.97	9.53	G	1	..	37459i	65	2602	13.1	-11 21	9.2	10.4	K5	1	..	18995b
16	1943	12.8	+36 7	7.8	9.0	K5	3	..	37345i	66	2810	13.1	-17 41	10.1	10.1	A	1	..	13154b
17	2200	12.8	+ 8 40	7.9	8.7	G5	2	E	38198i	67	2636	13.1	-19 8	8.6	9.1	F8	3	..	13154b
18	2809	12.8	-14 1	8.8	9.8	Ko	3	..	18995b	68	6906	13.1	-26 34	10.4	10.7	Ao	1	..	24494b
19	4948	12.8	-41 51	9.4	9.7	Ao	3	..	38418b	69	6434	13.1	-27 8	9.7	10.7	G5	1	..	24494b
20	5121	12.8	-42 48	11.5	10.5	Ao	1	..	38418b	70	5430	13.1	-38 59	5.37	7.4	Ko	..	0,8	56,126
21	5107	12.8	-43 30	10.0	9.5	F8	2	..	38418b	71	5345	13.1	-39 42	7.14	7.9	Ko	6	..	18436b
22	5050	12.8	-47 3	10.0	10.5	G5	2	..	38415b	72	5078	13.1	-41 3	9.6	10.3	Ko	1	..	38418b
23	4268	12.8	-49 10	9.1	9.1	A2	5	..	38415b	73	4955	13.1	-41 32	8.0	9.1	Ko	4	..	38418b
24	4269	12.8	-49 51	9.2	9.9	G5	2	..	38415b	74	4956	13.1	-42 6	10.4	10.6	Fo	1	..	38418b
25	2133	12.8	-54 6	8.8	8.8	Ao	4	E	40275b	75	5114	13.1	-43 39	10.2	9.3	A3	3	..	38418b
26	1951	12.8	-57 9	6.33	7.4	Ko	..	5,7	56,126	76	4801	13.1	-47 24	10.5	10.1	Ao	2	..	38415b
27	1329	12.8	-59 59	9.79	10.5	A	1	..	40096b	77	2069	13.1	-56 36	8.4	9.1	F5	4	..	38748b
28	910	12.8	-68 30	7.5	8.5	Ko	8	..	21452b	78	211	13.1	-84 46	8.1	9.2	K2	4	2,3	22238b
29	575	12.8	-73 35	8.7	9.5	G5	2	..	22988b	79	705	13.2	+65 15	8.9	9.2	F2	2	..	37517i
30	1181	12.9	+60 12	7.46	8.46	Ko	4	..	37705i	80	2074	13.2	+23 20	8.8	9.6	G5	2	..	37607i
31	1847	12.9	+30 16	8.5	9.3	G5	3	..	37741i	81	2877	13.2	- 7 3	9.2	10.2	Ko	2	..	19231b
32	2074	12.9	+22 0	9.5	9.9	F5	2	..	38646i	82	2854	13.2	-13 7	9.5	9.6	A5	2	..	18995b
33	2838	12.9	- 2 58	8.2	9.2	Ko	6	..	19392b	83	2751	13.2	-21 21	8.6	9.4	F2	2	..	18977b
34	2837	12.9	- 3 8	9.9	10.9	Ko	2	..	19392b	84	2556	13.2	-22 30	8.6	8.4	Ao	3	..	18977b
35	2766	12.9	- 5 47	9.5	10.5	Ko	1	..	19231b	85	6437	13.2	-27 38	9.7	10.4	A2	1	..	24494b
36	2810	12.9	-13 20	9.5	10.6	K2	1	..	18995b	86	6241	13.2	-32 6	8.0	8.1	A2	6	..	18927b
37	2808	12.9	-17 51	9.5	10.5	K	1	..	13154b	87	6240	13.2	-32 13	7.6	8.7	G5	3	..	18927b
38	2845	12.9	-20 55	8.06	8.7	K5	3	..	18977b	88	5079	13.2	-40 53	7.5	8.2	Ao	7	..	38418b
39	4949	12.9	-41 25	10.0	10.0	Ao	3	R	38418b	89	4804	13.2	-47 39	9.8	10.0	F8	2	..	38415b
40	5315	12.9	-44 39	9.4	9.3	Ao	3	..	38418b	90	1958	13.2	-57 9	9.5	9.5	A	1	..	38748b
41	1450	12.9	-58 27	8.5	9.1	K	1	..	38748b	91	1375	13.2	-60 58	9.7	10.5	G5	1	..	40096b
42	1114	13.0	+61 48	7.58	7.72	A5	5	..	37517i	92	..	13.2	-66 6	..	..	G5	1	..	21452b
43	1494	13.0	+50 54	8.7	9.9	K5	1	..	38240i	93	1052	13.2	-67 53	10.7	10.7	A	2	..	21452b
44	1703	13.0	+45 44	9.5	10.3	G5	1	..	4904m	94	574	13.2	-76 15	6.34	7.2	Ko	10	..	21453b
45	1854	13.0	+43 56	9.6	9.6	Ao	4	..	4904m	95	373	13.3	+75 25	7.97	9.04	K2	3	..	37714i
46	2009	13.0	+21 14	8.6	9.0	F5	4	..	37607i	96	1967	13.3	+37 25	9.1	10.3	K5	1	..	37345i
47	2302	13.0	+19 51	9.05	9.55	F8	2	..	37607i	97	2237	13.3	- 1 34	9.2	10.4	K5	2	..	19392b
48	2057	13.0	+17 40	8.5	8.8	Fo	3	..	37607i	98	2604	13.3	-11 54	8.8	9.4	Go	3	..	18995b
49	2493	13.0	+ 0 27	8.3	8.7	F5	2	..	37606i	99	2671	13.3	-19 13	9.2	9.6	A3	2	..	13154b
50	2173	13.0	- 0 56	9.2	9.7	F8	4	..	19392b	100	7918	13.3	-24 56	9.75	10.4	Ko	1	..	24494b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

80200

9^h 13^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6441	13.3	-27 55	8.7	10.1	Ao	2	..	24494b	51	2141	13.5	-54 17	8.1	9.4	K5	1	..	39868b
2	5612	13.3	-37 49	10.9	10.2	A	1	..	18436b	52	1964	13.5	-57 53	9.0	9.4	A2	2	..	38748b
3	5436	13.3	-38 23	9.6	10.2	G5	1	..	18436b	53	1377	13.5	-60 14	9.94	10.5	Ko	1	..	40096b
4	5349	13.3	-39 18	10.0	10.0	A2	1	..	18436b	54	1113	13.5	-63 33	8.7	9.5	G5	3	..	21452b
5	5319	13.3	-44 35	7.1	7.2	Ao	4	0,8	46200b	55	..	13.5	-65 48	var.	var.	Nb	1	0,1 R	21452b
6	5060	13.3	-46 47	9.4	9.3	A5	5	..	38415b	56	1055	13.5	-67 40	9.1	9.7	Go	2	..	21452b
7	4807	13.3	-47 16	10.9	10.7	A3	1	..	38415b	57	424	13.5	-78 56	7.9	7.9	Ao	6	..	20869b
8	4806	13.3	-47 54	10.2	10.0	Ao	3	..	38415b	58	302	13.5	-81 55	7.84	8.1	F5	6	0,5	20869b
9	4566	13.3	-48 33	9.6	9.9	G	1	R	38415b	59	559	13.6	+69 52	10.0	10.1	A2	1	..	37706i
10	4273	13.3	-49 9	7.1	7.8	F8	9	..	38415b	60	585	13.6	+67 38	9.5	10.1	G	2	..	37517i
11	3972	13.3	-50 31	9.1	9.0	A2	4	..	38415b	61	1664	13.6	+46 59	9.5	10.5	Ko	2	..	4904m
12	1959	13.3	-57 47	8.9	9.4	Ao	2	..	38748b	62	1855	13.6	+44 1	9.8	10.4	Go	2	..	4904m
13	996	13.3	-66 37	9.1	9.4	Fo	3	..	21452b	63	2558	13.6	-22 15	8.0	8.4	F2	5	..	18977b
14	1053	13.3	-67 52	8.2	8.2	B9	7	..	21452b	64	5933	13.6	-33 11	10.0	9.3	Ao	3	..	18927b
15	911	13.3	-68 44	9.1	9.1	Ao	4	..	21452b	65	5618	13.6	-37 36	9.0	9.1	Fo	3	..	18436b
16	1904	13.4	+43 19	10.0	10.8	G5	1	..	4904m	66	5137	13.6	-42 24	10.0	10.3	Fo	2	..	38418b
17	1927	13.4	+26 40	6.63	7.63	Ko	7	..	37741i	67	2272	13.6	-53 32	8.5	8.5	Ao	4	..	39868b
18	2165	13.4	+18 8	6.60	7.02	F5	8	..	37607i	68	2146	13.6	-54 14	8.3	8.2	B9	6	..	39868b
19	2629	13.4	-9 3	9.1	9.2	A5	2	..	19231b	69	2073	13.6	-57 4	9.2	9.2	B9	3	..	38748b
20	2799	13.4	-10 52	9.0	9.1	A2	3	..	18995b	70	1026	13.6	-69 41	9.0	10.0	Ko	2	..	21452b
21	2813	13.4	-17 54	9.5	9.9	F5	2	..	13154b	71	349	13.7	+76 34	9.0	10.1	K2	1	..	37714i
22	6443	13.4	-27 26	8.9	9.9	Ko	2	..	24494b	72	2081	13.7	+25 36	8.1	8.5	F5	3	0,2	38646i
23	7108	13.4	-28 59	8.1	8.3	A2	5	..	24494b	73	2742	13.7	-16 12	8.2	9.3	K2	3	..	13154b
24	5438	13.4	-38 7	10.0	9.7	F5	2	..	18436b	74	2639	13.7	-19 3	9.2	10.3	K2	1	..	13154b
25	4961	13.4	-42 1	10.9	10.0	B9	3	..	38418b	75	5549	13.7	-35 16	7.82	9.1	K2	4	..	18436b
26	5120	13.4	-43 10	10.2	9.8	F2	2	..	38418b	76	5356	13.7	-40 4	9.24	10.2	K2	1	..	39925b
27	4570	13.4	-48 32	9.6	9.7	Ao	2	..	38415b	77	4963	13.7	-41 23	10.0	9.7	G5	2	..	38418b
28	3973	13.4	-50 8	9.6	9.7	Ao	3	..	38415b	78	5326	13.7	-44 18	9.6	9.0	Ao	3	..	38418b
29	2051	13.4	-55 13	8.46	9.4	K2	1	..	39868b	79	5009	13.7	-45 51	9.6	9.8	B8	2	..	38418b
30	1961	13.4	-57 7	4.18	7.2	K5	8	R	42241b	80	5066	13.7	-47 4	10.9	10.9	Go	1	..	38415b
31	1205	13.4	-62 48	9.4	9.4	Ao	2	..	40096b	81	4811	13.7	-47 19	7.7	8.9	Ko	4	..	39931b
32	..	13.4	-65 50	..	..	K2	2	..	21452b	82	3979	13.7	-51 1	7.6	7.7	Ao	2	..	42951b
33	1330	13.5	+52 53	6.57	6.57	Ao	9	0,8	38650i	83	1457	13.7	-58 22	8.7	9.4	Ao	7	R	38748b
34	1975	13.5	+34 56	9.12	9.68	Go	1	..	37345i	84	1456	13.7	-58 49	8.8	9.1	B9	3	..	38748b
35	2014	13.5	+12 45	8.7	9.0	F2	3	..	38283i	85	1378	13.7	-60 44	8.8	10.0	Ko	2	..	40096b
36	2009	13.5	+11 23	7.9	8.0	A2	5	..	38283i	86	1019	13.7	-64 48	10.2	10.2	A	1	..	21452b
37	2008	13.5	+11 8	8.3	9.3	Ko	2	..	38283i	87	997	13.7	-66 19	8.8	9.1	Fo	5	..	21452b
38	2590	13.5	-4 29	8.6	8.6	Ao	3	..	19231b	88	1056	13.7	-67 41	9.4	10.2	G5	2	..	21452b
39	2631	13.5	-8 27	8.2	8.3	A2	5	..	18995b	89	912	13.7	-69 3	9.7	10.3	Go	3	..	21452b
40	2814	13.5	-17 49	7.8	7.9	A2	8	..	13154b	90	1495	13.8	+51 42	6.12	6.46	F2	8	..	38240i
41	2638	13.5	-18 49	9.0	9.1	A3	2	..	13154b	91	1704	13.8	+45 47	9.8	10.4	Go	1	..	4904m
42	2557	13.5	-22 34	8.4	9.0	Ao	4	..	18977b	92	2190	13.8	+39 58	8.52	9.52	Ko	2	..	37459i
43	7111	13.5	-28 43	8.3	11.0	Ma	1	..	24494b	93	2070	13.8	+24 41	9.21	9.21	Ao	2	..	38646i
44	5932	13.5	-33 38	10.4	9.3	Ao	3	..	18927b	94	2158	13.8	+9 31	7.82	8.82	Ko	2	..	38283i
45	5546	13.5	-35 58	8.0	9.6	Ko	3	..	18436b	95	2239	13.8	-1 18	9.9	10.7	G5	2	..	19392b
46	5133	13.5	-42 28	10.5	10.9	Ko	1	..	38418b	96	2840	13.8	-2 43	9.0	9.4	F5	3	..	19392b
47	5136	13.5	-42 58	9.4	8.5	A3	5	..	38418b	97	2813	13.8	-14 45	9.2	10.2	Ko	1	..	18995b
48	5124	13.5	-43 12	10.0	10.1	Go	1	..	38418b	98	2673	13.8	-19 56	9.2	9.1	Fo	3	..	18977b
49	3975	13.5	-50 32	11.5	9.9	Ao	1	..	38415b	99	6916	13.8	-26 52	8.1	8.6	F5	4	..	24494b
50	2270	13.5	-53 27	8.0	9.4	Ko	1	..	39868b	100	7410	13.8	-30 59	8.0	9.3	K2	2	..	18927b

THE HENRY DRAPER CATALOGUE.

80300

9^h 13^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5934	13.8	-33 21	10.0	9.6	Fo	2	..	18927b	51	1028	14.1	-69 42	8.1	9.1	Ko	2	..	22988b
2	5764	13.8	-34 56	8.39	8.7	A2	4	..	18436b	52	303	14.1	-81 48	9.1	10.1	Ko	1	..	20869b
3	5449	13.8	-38 14	9.1	9.1	F2	3	..	18436b	53	374	14.2	+75 40	8.52	9.08	Go	4	..	37714i
4	5447	13.8	-38 54	10.4	10.2	Ao	2	..	18436b	54	566	14.2	+68 30	10.3	10.3	Ao	1	..	37517i
5	5087	13.8	-40 43	10.4	10.3	Ao	1	..	39925b	55	1496	14.2	+51 44	8.3	9.1	G5	4	..	38240i
6	5128	13.8	-43 16	10.2	9.5	A2	4	..	38418b	56	1742	14.2	+27 37	8.7	9.0	Fo	2	..	38630i
7	3984	13.8	-50 12	10.5	9.6	A2	2	..	38415b	57	2203	14.2	+ 8 42	8.5	9.1	Go	2	..	9462b
8	2078	13.8	-56 20	7.9	8.2	F5	6	..	38748b	58	2650	14.2	- 4 2	9.2	9.8	Go	2	..	19392b
9	1459	13.8	-58 40	8.9	9.5	Ao	2	..	38748b	59	2594	14.2	- 4 54	8.8	9.4	Go	3	..	19231b
10	1379	13.8	-60 45	8.4	9.7	K2	2	..	40096b	60	7124	14.2	-28 59	8.7	9.6	F8	2	..	24494b
11	1027	13.8	-69 27	9.1	9.1	Ao	5	..	21452b	61	5091	14.2	-41 5	9.3	9.7	A2	3	..	38418b
12	1905	13.9	+43 2	9.5	10.5	Ko	2	..	4904m	62	5022	14.2	-45 40	9.6	10.1	A	1	..	38418b
13	2022	13.9	+38 12	7.9	8.9	Ko	4	..	37345i	63	3995	14.2	-50 32	10.0	9.7	A5	2	..	38415b
14	2792	13.9	-10 0	8.11	8.17	A2	6	..	18995b	64	570	14.2	-75 10	7.88	7.6	Ao	9	..	21453b
15	2606	13.9	-11 49	10.4	10.5	A2	1	..	18995b	65	517	14.3	+69 47	7.39	8.57	K5	5	..	37706i
16	2674	13.9	-19 56	8.0	8.3	A3	7	..	18977b	66	1832	14.3	+49 32	8.7	8.8	A2	1	..	38240i
17	2853	13.9	-21 10	8.8	9.1	Ao	4	..	18977b	67	2277	14.3	+ 1 19	7.9	8.9	Ko	3	..	37606i
18	7058	13.9	-25 21	9.4	10.1	Ko	1	..	24494b	68	2177	14.3	- 1 3	9.6	10.2	Go	2	..	19392b
19	7123	13.9	-31 56	9.5	9.6	A2	2	..	18927b	69	2749	14.3	-16 22	6.91	6.91	Ao	8	..	13154b
20	5360	13.9	-39 10	9.6	10.0	Ko	1	..	18436b	70	2748	14.3	-16 24	8.7	8.8	A3	5	..	13154b
21	5088	13.9	-40 35	8.7	10.2	Ko	1	..	39925b	71	2855	14.3	-20 25	9.9	9.6	Ao	2	..	18977b
22	4968	13.9	-41 20	10.4	10.2	F8	1	..	38418b	72	8245	14.3	-24 3	8.32	8.7	F8	4	..	18977b
23	5330	13.9	-44 26	10.0	10.1	F8	1	..	38418b	73	7128	14.3	-28 30	9.2	10.1	F8	1	..	24494b
24	1222	13.9	-61 36	9.1	10.3	K5	1	..	40096b	74	7333	14.3	-29 6	9.1	10.2	K5	1	..	24494b
25	1209	13.9	-62 27	8.9	8.9	B8	2	..	40096b	75	7415	14.3	-30 55	8.3	9.3	F8	3	..	18927b
26	..	13.9	-66 25	..	..	Ko	1	..	21452b	76	7129	14.3	-31 31	9.7	9.3	Ao	2	..	18927b
27	2083	14.0	+24 51	7.81	8.59	Go	4	5.3	38646i	77	5633	14.3	-37 57	10.2	9.9	A	1	..	18436b
28	2014	14.0	+20 58	7.9	9.0	K2	3	..	37607i	78	5146	14.3	-42 42	10.9	10.7	A2	1	..	38418b
29	2744	14.0	-16 47	8.8	9.8	Ko	3	..	13154b	79	5024	14.3	-45 12	9.8	9.2	Ao	2	..	38418b
30	6923	14.0	-26 33	9.9	10.4	F5	1	..	24494b	80	5025	14.3	-45 13	7.25	7.4	B8	7	..	38418b
31	7125	14.0	-31 16	9.9	9.9	Ao	1	..	18927b	81	4818	14.3	-47 55	9.6	8.7	Ao	2	..	39931b
32	5543	14.0	-36 58	6.99	7.0	Go	7	..	18436b	82	4580	14.3	-48 53	10.0	9.6	F8	2	..	38415b
33	5361	14.0	-39 11	9.8	10.0	A3	1	..	18436b	83	2185	14.3	-52 25	9.0	9.1	A	2	E	40275b
34	5139	14.0	-42 42	11.5	10.6	G5	1	..	38418b	84	2083	14.3	-56 47	9.7	9.7	A	1	..	38748b
35	4283	14.0	-49 50	10.9	9.9	Ao	3	..	38415b	85	1970	14.3	-57 23	8.9	9.8	K5	1	..	38748b
36	3987	14.0	-50 24	10.9	10.2	A5	1	..	38415b	86	1212	14.3	-62 15	8.7	8.8	A2	3	..	40096b
37	1831	14.1	+49 2	8.1	8.9	G5	3	..	38240i	87	425	14.3	-78 42	9.5	10.6	K2	2	..	21453b
38	1739	14.1	+28 43	8.0	9.1	K2	2	..	37741i	88	305	14.4	+78 51	8.04	8.60	G	5	R	37493i
39	1972	14.1	+10 13	7.35	8.35	Ko	5	..	38283i	89	..	14.4	+78 51	..	..	..	..	..	..
40	2240	14.1	- 2 1	7.74	7.82	A3	8	..	19392b	90	1214	14.4	+57 8	5.98	7.33	Mb	8	..	37705i
41	2772	14.1	- 6 5	9.2	10.0	G5	2	..	19231b	91	1977	14.4	+35 33	8.7	9.7	Ko	1	..	37345i
42	2815	14.1	-14 46	9.9	10.0	A2	2	..	18995b	92	2071	14.4	+13 21	9.2	9.6	F5	2	..	38283i
43	5943	14.1	-33 25	9.3	9.3	A5	3	..	18927b	93	2072	14.4	+13 9	9.9	9.9	A	1	..	38283i
44	5363	14.1	-39 54	9.6	9.1	A2	3	..	18436b	94	2778	14.4	- 7 56	8.2	8.6	F5	4	..	19231b
45	5338	14.1	-45 4	9.39	9.3	A5	2	..	38418b	95	2801	14.4	-10 44	7.69	8.69	Ko	5	..	18995b
46	5072	14.1	-46 50	10.2	10.4	Ao	2	..	38415b	96	2856	14.4	-20 22	8.6	9.6	G5	2	..	18977b
47	3990	14.1	-50 9	7.4	8.4	Ko	7	..	38415b	97	7131	14.4	-28 16	8.5	9.6	Fo	3	..	24494b
48	1336	14.1	-59 52	9.2	10.0	G5	1	7,1 R	38748b	98	7129	14.4	-28 55	8.5	9.2	F8	4	..	24494b
49	1381	14.1	-60 11	9.84	10.6	G5	1	..	40096b	99	5558	14.4	-35 18	8.8	9.4	F5	3	..	18436b
50	998	14.1	-67 0	9.0	9.1	A2	4	..	21452b	100	5559	14.4	-35 33	8.4	9.3	Ko	3	..	18436b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

80400

9^h 14^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4581	14.4	-48 41	10.0	9.6	Ao	3	..	38415b	51	5153	14.7	-42 10	10.5	10.5	A2	1	..	38418b
2	4288	14.4	-49 29	10.0	9.3	Ao	4	..	38415b	52	5151	14.7	-42 36	10.9	10.7	F8	2	..	38418b
3	3996	14.4	-50 19	10.0	9.7	B9	2	..	38415b	53	5149	14.7	-42 56	9.2	7.9	A2	6	..	38418b
4	1465	14.4	-58 51	2.25	2.53	Fo	..	R	28,203	54	5031	14.7	-45 25	9.2	8.7	Ao	4	..	38418b
5	573	14.4	-74 25	8.3	9.3	Ko	3	..	21453b	55	3998	14.7	-50 22	10.5	10.1	Ao	1	..	38415b
6	586	14.5	+67 26	8.9	9.9	K	2	..	37517i	56	4001	14.7	-50 38	5.34	5.6	B9	..	0,7 R	56,126
7	1492	14.5	+46 18	8.1	9.1	Ko	5	5,2	4904m	57	1469	14.7	-58 18	7.9	8.3	F5	6	..	38748b
8	1977	14.5	+34 12	8.6	9.4	G5	1	..	37345i	58	1225	14.7	-61 54	8.9	9.1	Ao	4	..	40096b
9	1931	14.5	+26 9	8.7	9.7	Ko	2	..	38646i	59	1114	14.7	-63 21	6.8	6.8	B9	9	..	21452b
10	1945	14.5	+16 22	8.9	9.7	G5	2	..	38283i	60	837	14.8	+63 17	9.3	9.9	G	1	..	37517i
11	2653	14.5	- 3 17	9.2	9.5	Fo	6	..	19392b	61	1708	14.8	+45 47	6.62	7.62	Ko	5	0,9	38240i
12	2638	14.5	- 9 8	8.7	9.2	F8	2	..	19231b	62	2161	14.8	+ 5 27	8.5	9.3	G5	2	..	37606i
13	2802	14.5	-10 49	9.1	9.9	G5	3	..	21395b	63	2657	14.8	- 3 17	10.1	11.1	Ko	1	..	19392b
14	2762	14.5	-15 21	9.5	9.6	A2	2	..	13154b	64	2774	14.8	- 5 34	8.0	9.2	K5	4	..	19231b
15	2751	14.5	-16 46	8.6	9.7	K2	3	..	13154b	65	2569	14.8	-22 59	7.9	9.0	Ao	4	..	18977b
16	8250	14.5	-23 19	9.9	9.0	A2	3	..	18977b	66	5560	14.8	-36 59	8.7	8.7	Fo	4	..	18436b
17	5952	14.5	-33 12	8.7	8.4	Ao	5	..	18927b	67	5098	14.8	-40 40	8.7	10.2	Ko	2	..	39925b
18	5369	14.5	-39 34	8.8	10.0	Ko	1	..	18436b	68	5156	14.8	-42 59	9.8	10.5	K2	1	..	38418b
19	2059	14.5	-55 31	7.4	8.3	Ko	4	..	39868b	69	5353	14.8	-44 35	9.4	9.3	B9	3	..	38418b
20	1466	14.5	-58 38	8.8	9.1	B9	3	..	38748b	70	5033	14.8	-45 31	9.1	9.3	Ko	2	..	38418b
21	1339	14.5	-59 28	9.0	9.2	Ao	2	..	38748b	71	5076	14.8	-46 45	9.6	9.2	Ao	2	..	39931b
22	1338	14.5	-59 30	8.7	8.8	A	2	..	38748b	72	1226	14.8	-62 1	9.0	9.4	Ao	3	..	40096b
23	1185	14.6	+58 6	9.0	9.6	Go	2	..	38224i	73	574	14.8	-74 42	9.2	9.2	Ao	3	..	21453b
24	2205	14.6	+ 8 36	8.5	8.5	Ao	3	E	38283i	74	206	14.9	+84 10	8.05	8.83	G5	3	..	37546i
25	2158	14.6	+ 5 39	6.51	6.65	A5	9	..	37606i	75	1293	14.9	+54 3	8.5	9.9	Mb	2	..	38650i
26	2654	14.6	- 3 56	8.6	8.7	A2	5	..	19392b	76	2017	14.9	+20 51	9.1	10.3	K5	1	..	38646i
27	2779	14.6	- 7 29	9.2	9.7	F8	2	..	19231b	77	2178	14.9	- 0 14	8.78	9.78	Ko	6	0,5	19340b
28	2676	14.6	-20 1	9.2	9.4	F8	1	..	18977b	78	2241	14.9	- 1 43	9.2	9.7	F8	5	..	19392b
29	2756	14.6	-22 8	7.14	7.6	Ao	9	..	18977b	79	2763	14.9	-15 24	5.93	6.93	Ko	8	..	13154b
30	7134	14.6	-28 46	9.4	10.1	A3	2	..	24494b	80	6466	14.9	-27 43	8.5	9.2	A2	4	..	24494b
31	5953	14.6	-33 40	7.46	8.5	Mb	4	5,3	18436b	81	6268	14.9	-32 42	10.2	9.3	A5	2	..	18927b
32	5457	14.6	-38 37	6.66	7.4	Ao	..	0,9	56,126	82	5780	14.9	-34 6	8.4	10.2	K5	1	..	18927b
33	5348	14.6	-44 34	9.1	9.3	F2	2	..	38418b	83	5380	14.9	-39 20	9.4	10.3	K5	1	..	39925b
34	3686	14.6	-51 33	9.1	8.8	Fo	3	..	39868b	84	5355	14.9	-44 11	8.5	8.3	Ao	6	..	38418b
35	2281	14.6	-54 4	6.26	8.2	Ko	7	..	39868b	85	2091	14.9	-56 44	9.0	9.2	Ao	2	..	38748b
36	1224	14.6	-62 1	8.3	8.5	B9	4	..	40096b	86	1341	14.9	-59 6	10.3	10.3	A	1	..	38748b
37	915	14.6	-69 2	9.5	10.0	F8	4	..	21452b	87	1340	14.9	-59 10	9.1	9.1	F5	3	..	38748b
38	1292	14.7	+54 11	8.7	9.7	Ko	2	..	38650i	88	999	14.9	-66 42	8.8	8.8	B8	6	..	21452b
39	1707	14.7	+45 14	9.3	9.8	F8	2	..	4904m	89	1030	14.9	-69 13	8.2	8.2	Ao	6	..	21452b
40	1906	14.7	+43 26	10.3	10.8	F8	2	..	4904m	90	575	14.9	-74 52	8.3	8.9	Go	6	..	21453b
41	2025	14.7	+38 37	5.86	6.20	F2	8	..	37345i	91	..	15.0	+43 35	..	..	K5	1	..	4904m
42	1970	14.7	+37 8	8.8	8.9	A2	3	..	37345i	92	2194	15.0	+40 5	7.12	8.12	Ko	5	..	37345i
43	1978	14.7	+34 37	8.6	9.4	G5	2	..	37345i	93	1979	15.0	+34 49	3.30	4.48	K5	..	0,10	1740c
44	2165	14.7	+ 4 43	8.40	8.74	F2	4	..	37606i	94	2078	15.0	+23 5	8.3	9.1	G5	2	..	37607i
45	2656	14.7	- 3 46	9.2	10.3	K2	1	..	19392b	95	2198	15.0	+19 33	7.30	8.08	G5	5	..	37607i
46	2655	14.7	- 4 7	8.6	9.4	G5	4	..	19392b	96	2020	15.0	+11 57	9.0	9.8	G5	2	..	38283i
47	2804	14.7	-10 53	6.53	6.59	A2	..	2,10	56,86	97	2242	15.0	- 1 33	9.2	9.3	A2	5	..	19392b
48	7073	14.7	-25 50	8.7	9.3	G5	1	..	24494b	98	2805	15.0	-10 46	8.4	9.5	K2	2	..	18995b
49	7070	14.7	-25 52	10.2	10.4	Fo	1	..	24494b	99	2609	15.0	-11 33	4.94	5.72	G5	..	..	56,86
50	6264	14.7	-32 59	10.0	9.6	Go	1	..	18927b	100	5640	15.0	-37 10	10.0	10.5	A2	1	..	39925b

THE HENRY DRAPER CATALOGUE.

80500

9^h 15^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5463	15.0	-39 0	7.6	8.6	Ko	4	..	18436b	51	2808	15.4	-10 18	8.81	9.99	K5	1	..	18995b
2	5382	15.0	-39 15	10.0	10.3	Ao	1	..	39925b	52	2572	15.4	-22 32	8.6	9.1	F8	4	..	18977b
3	4983	15.0	-41 58	10.9	10.6	Ao	1	..	38418b	53	7087	15.4	-25 14	9.55	10.1	Ko	2	..	24494b
4	5039	15.0	-45 43	10.0	10.1	A2	1	..	38418b	54	7354	15.4	-29 28	9.7	9.6	F5	2	..	13281b
5	4295	15.0	-49 30	9.8	9.0	Ao	5	..	38415b	55	5465	15.4	-38 26	8.7	8.5	Fo	4	..	18436b
6	3691	15.0	-51 16	9.4	9.6	Ko	2	..	38415b	56	5111	15.4	-40 42	8.7	9.1	A5	3	..	39925b
7	1214	15.0	-62 29	8.4	8.5	A3	3	..	38748b	57	5159	15.4	-44 2	9.8	10.1	Ko	1	..	38418b
8	2195	15.1	+40 43	6.98	7.04	A2	5	..	37345i	58	3693	15.4	-51 8	5.87	7.3	B8p	..	R	56,126
9	1980	15.1	+35 23	7.9	8.3	F5	5	..	37345i	59	1977	15.4	-57 32	8.9	9.1	A5	2	..	38748b
10	2062	15.1	+17 33	7.6	7.9	F2	5	..	37607i	60	1978	15.4	-57 41	8.6	9.2	A2	3	..	38748b
11	2014	15.1	+11 24	8.5	9.5	Ko	2	..	38283i	61	1474	15.4	-58 52	9.6	9.7	A2	3	..	38748b
12	2819	15.1	-14 21	8.7	8.8	A2	4	..	18995b	62	1383	15.4	-60 48	10.9	10.9	A	2	..	40096b
13	2858	15.1	-20 18	9.9	10.2	K	1	..	18977b	63	1215	15.4	-62 58	8.2	8.5	Fo	4	..	21452b
14	7347	15.1	-29 22	9.2	9.9	K5	1	..	13281b	64	1216	15.5	+57 32	9.5	10.5	Ko	1	..	38224i
15	5152	15.1	-43 37	9.1	8.9	A3	5	..	38418b	65	1332	15.5	+53 22	8.7	9.8	K2	2	..	38650i
16	1097	15.1	-65 20	9.1	9.2	A3	4	..	21452b	66	1499	15.5	+51 26	8.42	9.49	K2	2	..	38240i
17	806	15.1	-71 45	7.9	8.0	A3	4	..	22988b	67	2499	15.5	+ 0 36	6.82	8.17	Mb	5	..	37606i
18	567	15.2	+68 8	8.9	9.7	G5	1	..	37517i	68	2243	15.5	- 1 24	9.4	9.5	A2	2	..	19392b
19	1756	15.2	+48 15	9.8	10.8	K	1	R	38240i	69	2823	15.5	-18 7	8.6	9.0	F5	5	..	13154b
20	2078	15.2	+22 6	8.6	9.2	Go	2	..	38646i	70	4987	15.5	-41 51	10.4	10.6	K2	1	..	38418b
21	2864	15.2	-12 53	7.21	8.21	Ko	6	E	21395b	71	5084	15.5	-46 13	8.2	8.9	Ko	3	..	39931b
22	6473	15.2	-27 50	8.7	10.7	K2	1	..	24494b	72	4831	15.5	-47 33	7.3	8.0	G5	6	..	39931b
23	7348	15.2	-29 17	8.5	9.3	K5	1	..	13281b	73	4302	15.5	-49 22	8.8	8.4	B9	6	..	38415b
24	7138	15.2	-31 48	8.9	8.4	F5	4	..	18927b	74	4304	15.5	-49 25	9.1	9.0	Ao	5	..	38415b
25	5164	15.2	-42 26	11.5	10.7	Ao	1	..	38418b	75	4305	15.5	-49 48	10.0	9.9	Ko	1	..	38415b
26	5163	15.2	-42 59	10.5	10.5	G5	1	..	38418b	76	2096	15.5	-56 44	9.0	9.2	Fo	3	..	38748b
27	5362	15.2	-44 35	7.5	8.1	Ko	6	..	38418b	77	2095	15.5	-56 51	7.0	8.2	K2	7	..	38748b
28	5081	15.2	-46 47	7.7	7.4	B9	5	0,7	46200b	78	312	15.5	-82 26	8.6	9.0	F5	3	0,2	20869b
29	4010	15.2	-50 10	9.20	9.0	F5	4	..	38415b	79	350	15.6	+76 28	9.6	10.2	G	1	..	37714i
30	1058	15.2	-67 47	9.1	9.1	Ao	3	..	21452b	80	1865	15.6	+32 41	6.58	6.58	Ao	8	..	37741i
31	490	15.2	-77 48	8.4	8.5	A3	7	..	21453b	81	2085	15.6	+25 47	8.8	9.8	Ko	2	..	38646i
32	518	15.3	+69 18	7.9	9.0	K2	3	..	37706i	82	2021	15.6	+12 23	8.5	8.8	Fo	4	..	38283i
33	610	15.3	+66 35	8.5	9.1	Go	1	..	37517i	83	2022	15.6	+12 21	9.2	10.2	Ko	1	..	38283i
34	1709	15.3	+45 21	8.8	9.4	Go	6	5,1	4904m	84	2285	15.6	+ 1 18	8.5	8.5	Ao	4	..	37606i
35	1888	15.3	+28 57	9.7	9.8	A3	1	..	37741i	85	2644	15.6	- 8 28	8.6	9.6	Ko	2	..	19231b
36	2084	15.3	+25 36	7.26	7.82	Go	5	..	37741i	86	2643	15.6	- 9 8	4.97	5.75	G5	..	R	56,86
37	2498	15.3	+ 0 42	7.65	8.43	G5	4	..	37606i	87	7958	15.6	-24 50	8.0	8.9	Ko	4	..	24494b
38	2777	15.3	- 5 34	9.5	9.8	Fo	2	..	19231b	88	7090	15.6	-25 9	9.55	9.6	A3	3	..	24494b
39	2821	15.3	-17 45	9.5	9.5	Ao	3	..	13154b	89	6476	15.6	-27 21	7.9	8.0	Ao	7	..	24494b
40	6946	15.3	-26 59	8.5	9.6	F2	2	..	24494b	90	5973	15.6	-33 41	6.48	6.9	B8	8	0,10	9427b
41	6272	15.3	-32 30	8.0	9.0	K5	2	..	18927b	91	5651	15.6	-37 43	8.5	9.6	K5	2	..	18436b
42	5108	15.3	-41 3	7.6	8.2	G5	6	..	38418b	92	4991	15.6	-41 31	10.7	9.7	B9	2	..	38418b
43	5157	15.3	-43 45	10.0	9.2	Ao	4	..	38418b	93	4989	15.6	-41 49	11.4	10.6	Ao	1	..	38418b
44	2163	15.3	-54 24	9.1	9.7	Ko	1	..	39868b	94	5168	15.6	-42 48	9.6	9.1	F2	4	..	38418b
45	1976	15.3	-57 21	8.7	9.8	K2	1	..	38748b	95	4832	15.6	-47 59	10.0	9.8	Go	2	..	38415b
46	1848	15.4	+33 21	6.22	7.22	Ko	7	..	37741i	96	4596	15.6	-49 1	11.5	10.2	G	1	..	38415b
47	1932	15.4	+26 26	8.1	8.5	F5	3	..	37741i	97	4013	15.6	-50 19	9.2	9.0	A2	3	..	38415b
48	2658	15.4	- 4 11	9.0	10.0	Ko	2	..	19392b	98	2293	15.6	-53 11	8.0	8.3	B8	5	..	39868b
49	2782	15.4	- 7 57	8.8	9.4	Go	2	..	19231b	99	1229	15.6	-61 24	8.7	8.8	Ao	3	..	38748b
50	2801	15.4	- 9 11	6.87	7.21	F2	7	..	18995b	100	1021	15.6	-64 25	9.7	9.7	Ao	2	..	21452b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

80600

9^h 15^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1098	15.6	-66 5	8.9	9.7	G5	2	..	21452b	51	2080	15.9	+23 12	7.9	9.0	K2	2	..	38646i
2	1000	15.6	-66 8	8.6	9.1	F8	5	..	21452b	52	2065	15.9	+17 2	6.79	6.93	A5	7	..	37607i
3	1061	15.6	-67 15	7.5	8.5	Ko	8	..	21452b	53	2079	15.9	+14 49	9.9	10.7	G5	1	..	38283i
4	1060	15.6	-67 45	9.4	9.4	B9	4	..	21452b	54	2074	15.9	+13 33	6.58	7.00	F5	7	..	38283i
5	838	15.7	+63 37	8.7	9.8	K2	2	..	37517i	55	2023	15.9	+12 41	8.5	9.9	Mb	2	..	38283i
6	1500	15.7	+51 2	8.6	9.4	G5	1	R	38240i	56	2825	15.9	-13 18	9.2	9.2	A	3	..	18995b
7		15.7	+51 2			G5	2			57	2766	15.9	-15 49	9.2	10.0	G5	3	..	13154b
8	1633	15.7	+49 57	6.86	6.84	B9	7	..	38240i	58	2575	15.9	-22 59	8.4	9.0	G5	2	..	18977b
9	1833	15.7	+48 51	7.36	7.70	F2	5	..	38240i	59	7360	15.9	-29 7	9.2	9.9	A3	1	..	13281b
10	1856	15.7	+43 56	9.8	10.1	F2	2	..	4904m	60	5170	15.9	-43 46	9.8	9.8	G5	1	..	38418b
11	2079	15.7	+23 20	8.0	9.0	Ko	2	..	38646i	61	5171	15.9	-43 53	10.0	9.8	Fo	3	..	38418b
12	2305	15.7	+19 53	8.75	9.31	Go	2	..	37607i	62	4838	15.9	-47 12	10.5	10.4	F5	1	..	38415b
13	2027	15.7	+15 48	6.49	6.49	Ao	8	..	37607i	63	4839	15.9	-48 1	10.0	10.1	Ao	3	..	38415b
14	2596	15.7	-4 42	8.2	9.6	Ma	2	..	19392b	64	4600	15.9	-48 33	9.4	9.5	F8	3	..	38415b
15	2784	15.7	-7 16	9.0	10.0	Ko	1	..	19231b	65	4312	15.9	-49 17	10.5	10.2	Ko	1	..	38415b
16	2824	15.7	-14 19	9.0	9.5	F8	3	..	18995b	66	4017	15.9	-50 18	10.2	9.6	Ao	2	..	38415b
17	2647	15.7	-18 31	8.6	8.7	A2	3	..	13154b	67	2076	15.9	-55 38	8.3	9.1	K2	3	..	39868b
18	2574	15.7	-23 3	7.58	8.4	Fo	7	..	18977b	68	1385	15.9	-61 2	9.4	10.6	K5	1	..	40096b
19	6949	15.7	-26 17	8.5	10.1	Ko	2	..	24494b	69	1234	15.9	-61 9	10.6	10.6	Ao	2	..	40096b
20	6951	15.7	-26 25	8.1	8.3	Ao	5	..	24494b	70	1001	15.9	-66 16	8.2	8.6	F5	6	..	21452b
21	6477	15.7	-27 9	8.1	10.7	Ma	1	..	24494b	71	918	15.9	-68 16	5.44	5.3	F2	..	..	56,126
22	7150	15.7	-31 16	9.2	9.3	G5	1	..	18927b	72	1033	15.9	-69 12	8.6	8.6	Ao	5	..	21452b
23	5115	15.7	-40 8	9.14	10.0	F8	2	..	39925b	73	588	16.0	+67 38	9.0	9.6	Go	2	..	37517i
24	4598	15.7	-48 9	10.5	9.9	Ao	2	..	38415b	74	1494	16.0	+46 43	9.1	9.9	G5	3	..	4904m
25	4306	15.7	-49 39	9.0	8.1	A2	4	..	39931b	75	1710	16.0	+45 27	9.5	10.1	Go	5	..	4904m
26	3698	15.7	-51 54	8.9	8.5	A	2	E	40275b	76	2024	16.0	+12 47	8.6	9.7	K2	2	..	38283i
27	1477	15.7	-59 0	10.3	10.3	A	1	..	38748b	77	1980	16.0	+9 59	8.32	9.39	K2	1	..	38283i
28	1346	15.7	-59 13	7.7	7.9	Ao	7	..	38748b	78	2193	16.0	+3 22	7.02	7.36	F2	7	..	37606i
29	1231	15.7	-61 15	8.4	9.7	K2	1	..	38748b	79	2183	16.0	-0 13	9.38	9.80	F5	3	..	19392b
30	572	15.7	-75 44	9.0	9.8	G5	3	..	21453b	80	2853	16.0	-2 22	9.0	10.0	Ko	2	..	19392b
31	2500	15.8	+0 16	8.6	9.6	Ko	4	0.3	19340b	81	2851	16.0	-2 32	9.0	9.3	F2	4	..	19392b
32	2778	15.8	-5 20	8.95	10.02	K2	1	..	19231b	82	2852	16.0	-3 7	9.0	9.4	F5	2	..	19392b
33	2785	15.8	-7 18	7.6	8.1	F8	6	..	19231b	83	2779	16.0	-5 33	9.5	9.9	F5	1	..	19231b
34	2868	15.8	-12 26	10.4	11.0	G	1	..	18995b	84	2869	16.0	-12 11	9.7	10.0	Fo	1	..	18995b
35	2757	15.8	-16 59	8.4	9.2	G5	3	..	13154b	85	2826	16.0	-13 23	8.0	8.4	F5	6	..	18995b
36	2649	15.8	-19 5	9.1	9.7	Go	2	..	13154b	86	2826	16.0	-14 49	9.2	9.7	F8	1	..	18995b
37	2861	15.8	-20 56	9.0	9.4	Go	2	..	18977b	87	2767	16.0	-15 30	10.1	10.1	Ao	2	..	13154b
38	8274	15.8	-23 32	9.7	9.3	A3	2	..	18977b	88	2685	16.0	-19 51	9.2	9.6	Ao	2	..	13154b
39	7094	15.8	-25 12	9.15	8.9	Ao	5	..	24494b	89	6281	16.0	-32 16	9.4	9.3	Fo	2	..	18927b
40	6279	15.8	-32 15	8.7	9.3	G5	2	..	18927b	90	5575	16.0	-36 8	8.7	9.6	Ko	2	..	18436b
41	5790	15.8	-35 4	7.08	7.5	Ko	7	..	18436b	91	5474	16.0	-39 3	9.4	10.3	Ko	1	..	39925b
42	5572	15.8	-36 40	8.2	9.9	K5	1	..	18436b	92	5053	16.0	-45 15	9.69	10.0	B9	2	..	38418b
43	5470	15.8	-38 37	10.4	10.0	Ao	2	..	18436b	93	1347	16.0	-59 54	10.0	10.3	Fo	1	..	40096b
44	4992	15.8	-41 22	9.4	9.4	B8	4	..	38418b	94	1386	16.0	-60 37	8.0	9.5	K2	2	..	38748b
45	4835	15.8	-47 45	10.9	10.4	A5	2	..	38415b	95	573	16.0	-75 40	9.1	10.1	Ko	2	..	21453b
46	1384	15.8	-60 52	8.4	9.5	K5	1	..	38748b	96	366	16.1	+77 18	9.0	9.8	G5	3	..	37714i
47	917	15.8	-68 9	9.5	9.5	Ao	3	..	40074b	97	1666	16.1	+47 32	9.0	9.8	G5	1	..	38240i
48	491	15.8	-77 55	9.8	10.2	F5	2	..	21453b	98	1950	16.1	+36 1	8.1	9.1	Ko	3	..	37345i
49	1890	15.9	+28 56	7.9	8.2	F2	6	..	37741i	99	2201	16.1	+19 11	7.72	8.28	Go	4	..	37607i
50	1745	15.9	+27 18	8.8	9.9	K2	2	..	38646i	100	2153	16.1	+5 57	8.3	8.8	F8	4	..	37606i

THE HENRY DRAPER CATALOGUE.

80700

9^h 16^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2171	16.1	+ 3 51	7.9	8.2	Fo	4	..	37606i	51	2868	16.4	- 20 33	8.4	8.4	F2	5	..	18977b
2	2809	16.1	- 11 10	8.7	9.5	G5	6	E	21395b	52	7160	16.4	- 28 47	8.1	7.8	A2	8	..	24494b
3	2611	16.1	- 12 9	9.2	10.2	Ko	1	..	18995b	53	7368	16.4	- 29 24	9.7	9.3	A2	1	..	13281b
4	2826	16.1	- 17 48	8.8	9.8	Ko	1	..	13154b	54	5594	16.4	- 35 29	9.0	9.6	A2	3	..	18436b
5	7158	16.1	- 28 42	7.32	8.0	Ko	7	..	24494b	55	5582	16.4	- 36 54	8.0	9.6	K5	2	..	18436b
6	7155	16.1	- 31 38	8.0	8.5	A2	5	..	18927b	56	5666	16.4	- 37 26	9.0	9.9	G5	2	..	18436b
7	5408	16.1	- 39 45	9.4	9.4	Ko	2	..	18436b	57	5125	16.4	- 40 9	9.28	10.3	Ko	1	..	39925b
8	5121	16.1	- 41 0	11.4	10.3	A3	1	..	38418b	58	5124	16.4	- 40 15	9.44	10.2	Ko	1	..	39925b
9	5054	16.1	- 45 21	9.8	9.8	F8	2	..	38418b	59	5183	16.4	- 42 58	7.8	8.5	Ko	5	..	38418b
10	1002	16.1	- 66 37	5.88	7.9	Ko	10	..	21452b	60	5179	16.4	- 43 17	10.0	10.1	A2	2	..	38418b
11	463	16.2	+ 73 42	9.3	10.1	G5	2	..	37714i	61	5095	16.4	- 46 31	7.3	7.4	B8	5	0,7	46200b
12	1234	16.2	+ 59 45	9.11	9.67	Go	2	..	38224i	62	4844	16.4	- 47 38	10.0	10.1	A2	2	..	38415b
13	1495	16.2	+ 46 20	10.0	10.6	Go	1	..	4904m	63	4842	16.4	- 47 42	10.2	10.5	A	2	..	38415b
14	1857	16.2	+ 44 1	8.8	9.1	F2	5	R	4904m	64	4318	16.4	- 49 23	10.9	9.3	Ao	1	..	39931b
15	2197	16.2	+ 40 40	7.71	8.78	K2	2	..	37345i	65	2304	16.4	- 53 57	8.5	9.1	K5	2	..	39868b
16	1985	16.2	+ 35 15	9.1	10.1	Ko	1	..	37345i	66	1034	16.4	- 69 58	7.7	8.5	G5	2	..	22988b
17	2811	16.2	- 10 57	9.1	9.9	G5	3	E	21395b	67	875	16.4	- 70 15	9.4	9.4	Ao	2	..	40074b
18	2830	16.2	- 15 2	9.16	10.34	K5	1	..	18995b	68	351	16.5	+ 76 22	9.1	10.2	K2	1	..	37714i
19	2828	16.2	- 15 11	6.34	6.76	F5	9	..	13154b	69	2689	16.5	- 19 45	9.2	10.2	K2	1	..	13154b
20	2651	16.2	- 19 10	9.5	10.0	G5	1	..	13154b	70	6488	16.5	- 27 30	9.2	9.8	Fo	2	..	24494b
21	5578	16.2	- 36 32	7.8	8.8	K2	3	..	18436b	71	7161	16.5	- 28 22	7.54	8.3	K2	6	..	24494b
22	5581	16.2	- 36 56	9.1	9.6	G5	2	..	18436b	72	7456	16.5	- 30 17	8.7	9.3	Fo	1	..	18927b
23	4997	16.2	- 41 35	9.1	9.4	Ko	3	..	38418b	73	7162	16.5	- 31 20	6.78	7.4	Ao	9	..	18927b
24	4998	16.2	- 41 41	10.0	9.7	A2	2	..	38418b	74	5668	16.5	- 37 9	6.10	7.5	Ko	7	..	18436b
25	4841	16.2	- 47 12	9.2	9.0	A2	3	..	39931b	75	5126	16.5	- 41 1	9.0	9.1	Ao	5	..	38418b
26	2080	16.2	- 55 56	6.7	7.4	A2	8	0,9	39868b	76	5186	16.5	- 42 59	9.8	10.0	F2	2	..	38418b
27	1387	16.2	- 60 33	8.3	8.9	Fo	4	..	38748b	77	5382	16.5	- 44 45	6.8	7.6	Ko	7	..	39931b
28	1217	16.2	- 62 32	9.5	9.5	Ao	2	..	40096b	78	5096	16.5	- 46 20	9.2	10.0	G5	1	..	39931b
29	1099	16.2	- 65 44	9.2	9.2	Ao	4	..	21452b	79	4026	16.5	- 50 7	9.10	8.6	Ao	5	..	38415b
30	503	16.3	+ 70 52	8.7	9.5	G5	1	..	37706i	80	2306	16.5	- 53 18	7.9	8.5	A3	3	..	39868b
31	1069	16.3	+ 62 12	8.3	8.6	Fo	3	5,3	37517i	81	2186	16.5	- 54 45	6.44	6.1	B5	..	2,10	28,203
32	2082	16.3	+ 21 55	8.3	9.3	Ko	3	..	37607i	82	1100	16.5	- 65 56	9.7	9.7	Ao	3	..	21452b
33	2172	16.3	+ 4 23	8.5	9.5	Ko	5	0,2	19340b	83	1118	16.6	+ 60 52	7.48	8.55	K2	3	..	37705i
34	2871	16.3	- 12 23	9.5	10.5	K	1	..	18995b	84	1496	16.6	+ 46 32	9.8	10.9	K2	1	..	4904m
35	8283	16.3	- 23 41	8.0	8.7	Ko	5	..	18977b	85	2829	16.6	- 13 26	9.5	10.3	G5	2	..	18995b
36	7366	16.3	- 29 28	8.1	9.3	K5	2	..	13281b	86	5597	16.6	- 35 22	10.4	9.6	A5	2	..	18436b
37	5092	16.3	- 46 18	9.6	9.8	A	1	..	39931b	87	5596	16.6	- 35 31	10.0	10.2	A	1	..	18436b
38	4605	16.3	- 48 38	10.5	10.3	F8	1	..	38415b	88	5190	16.6	- 42 36	8.5	9.1	Ko	5	..	38418b
39	1481	16.3	- 58 34	10.2	10.2	Ao	1	..	38748b	89	5060	16.6	- 45 55	9.8	9.8	A2	2	..	39931b
40	1480	16.3	- 58 57	9.6	9.7	A5	2	..	38748b	90	1482	16.6	- 58 30	7.1	7.6	F8	7	..	38748b
41	1235	16.3	- 61 30	9.7	9.7	A	2	R	40096b	91	1236	16.6	- 61 30	10.6	10.6	A	1	..	40096b
42	1022	16.3	- 65 0	7.64	8.8	Ko	8	5,3	21452b	92	1331	16.7	+ 55 38	7.9	8.9	Ko	4	..	37705i
43	2001	16.4	+ 42 38	8.1	8.6	F8	2	..	37459i	93	1859	16.7	+ 44 7	9.5	10.3	G5	1	..	4904m
44	2210	16.4	+ 8 39	8.4	8.8	F5	3	..	9462b	94	2199	16.7	+ 40 7	8.8	8.9	A2	2	..	37345i
45	2244	16.4	- 2 0	10.6	11.2	Go	2	..	19392b	95	2185	16.7	+ 2 19	8.3	9.4	K2	3	..	19340b
46	2660	16.4	- 3 49	9.0	9.6	Go	2	..	19392b	96	2859	16.7	- 2 22	7.10	7.08	B9	7	..	21505b
47	2891	16.4	- 6 15	8.6	9.4	G5	2	..	19231b	97	2860	16.7	- 3 6	9.0	9.0	Ao	4	..	19392b
48	2872	16.4	- 12 57	9.0	10.4	Ma	2	..	21395b	98	2661	16.7	- 4 6	8.4	9.5	K2	3	..	19392b
49	2831	16.4	- 15 6	9.5	9.9	F5	1	..	18995b	99	2647	16.7	- 8 35	9.1	10.3	K5	1	..	19231b
50	2769	16.4	- 15 49	8.4	8.4	Ao	4	..	13154b	100	2813	16.7	- 10 42	9.7	10.5	G5	1	E	21395b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

80800

9^h 16^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2614	16.7	-11 25	9.2	10.2	Ko	2	..	21395b	51	2808	17.0	-10 0	7.96	8.24	Fo	6	0,6	19231b
2	5985	16.7	-33 13	9.1	9.3	F5	1	..	18927b	52	7170	17.0	-31 51	9.2	8.4	Bo	4	..	18927b
3	5587	16.7	-36 24	9.0	10.2	Ko	1	..	18436b	53	5809	17.0	-34 56	7.49	7.5	F2	8	..	18436b
4	5416	16.7	-39 28	9.3	10.2	Ko	1	..	18436b	54	5136	17.0	-40 55	8.7	9.4	Ko	4	5,2	38418b
5	5004	16.7	-41 57	9.4	9.7	A2	4	..	38418b	55	5195	17.0	-42 24	7.9	8.3	F5	5	..	38418b
6	2188	16.7	-54 19	8.7	9.1	B9	2	..	39868b	56	5194	17.0	-42 39	8.5	9.1	K2	3	..	38418b
7	1035	16.7	-69 22	6.9	6.9	Ao	6	..	22988b	57	5191	17.0	-43 50	10.5	10.1	A2	2	..	38418b
8	612	16.8	+65 59	8.7	9.7	Ko	1	..	37517i	58	5391	17.0	-44 52	10.5	10.0	F2	1	..	38418b
9	1235	16.8	+59 46	9.26	10.26	Ko	1	..	38224i	59	4850	17.0	-47 8	7.5	7.8	B8	7	..	39931b
10	1667	16.8	+47 13	9.5	9.6	A2	1	..	38240i	60	4849	17.0	-47 47	10.0	10.1	G5	2	..	38415b
11	2079	16.8	+13 1	8.7	9.7	Ko	3	..	38283i	61	4325	17.0	-49 46	10.5	9.8	Ao	1	..	38415b
12	2026	16.8	+12 43	9.6	9.9	F2	2	..	38283i	62	2242	17.0	-52 41	8.7	8.7	A2	4	..	39868b
13	2649	16.8	-8 14	9.2	9.7	F8	1	..	19231b	63	1238	17.0	-61 19	8.3	8.9	Go	4	..	40096b
14	2814	16.8	-10 48	9.7	10.0	Fo	3	E	21395b	64	1219	17.0	-62 18	8.2	8.2	Ao	4	..	38748b
15	2828	16.8	-17 19	9.2	9.7	F8	3	..	13154b	65	1101	17.0	-65 13	9.2	9.2	B9	5	..	21452b
16	5187	16.8	-43 29	9.6	9.0	B9	4	..	38418b	66	799	17.0	-72 36	7.9	8.0	A3	7	..	22988b
17	5186	16.8	-43 51	8.5	8.0	A2	7	..	38418b	67	732	17.1	+64 0	9.1	9.4	F2	4	..	37517i
18	1062	16.8	-67 45	9.1	10.3	K5	3	..	21452b	68	1712	17.1	+45 48	9.5	9.8	F	3	..	4904m
19	1936	16.9	+26 12	8.2	9.0	G5	3	..	37741i	69	1984	17.1	+34 21	8.2	9.0	G5	2	..	37345i
20	2031	16.9	+15 19	8.7	9.7	Ko	1	..	38283i	70	1852	17.1	+33 22	7.73	8.51	G5	4	..	37741i
21	2116	16.9	+7 7	8.5	8.9	F5	2	..	9462b	71	2504	17.1	+0 0	7.9	8.7	G5	3	..	37606i
22	2156	16.9	+6 33	8.9	8.9	Ao	3	..	9462b	72	2817	17.1	-10 41	9.9	10.2	Fo	2	E	21395b
23	2155	16.9	+6 1	7.9	8.4	F8	6	..	37606i	73	2877	17.1	-13 6	7.76	8.83	K2	5	..	21395b
24	2863	16.9	-2 23	8.10	9.17	K2	4	..	19392b	74	7114	17.1	-25 32	4.93	7.3	Ma	..	5, R	28,203
25	2862	16.9	-3 7	9.7	9.8	A2	4	..	19392b	75	6499	17.1	-27 25	10.9	9.6	G	1	..	24494b
26	2789	16.9	-7 59	9.1	10.2	K2	1	..	19231b	76	5011	17.1	-41 8	10.0	10.6	Ko	1	..	38418b
27	2815	16.9	-10 25	9.0	10.0	Ko	2	E	21395b	77	5010	17.1	-41 37	10.4	10.3	A2	2	..	38418b
28	2829	16.9	-17 19	8.6	9.1	F8	6	..	13154b	78	5198	17.1	-43 5	10.9	10.6	Fo	2	..	38418b
29	2652	16.9	-18 31	8.7	9.9	K5	1	..	13154b	79	5193	17.1	-43 24	10.2	10.1	Ao	2	..	38418b
30	8288	16.9	-23 21	9.1	8.7	G5	3	..	18977b	80	4037	17.1	-50 22	8.9	8.9	F5	3	..	38415b
31	7976	16.9	-24 23	8.0	8.2	A5	7	..	18977b	81	2192	17.1	-54 49	8.5	9.1	Ko	2	..	39868b
32	5492	16.9	-38 18	10.0	10.0	B8	1	..	18436b	82	2105	17.1	-56 44	8.3	8.5	A3	5	..	38748b
33	5134	16.9	-40 38	10.4	10.0	Ao	1	..	39925b	83	1485	17.1	-59 3	8.7	9.7	Ko	3	..	38748b
34	5006	16.9	-41 45	9.6	10.0	B	1	R	38418b	84	1064	17.1	-68 1	9.6	9.7	A2	5	..	21452b
35	5192	16.9	-42 38	10.5	9.7	A3	3	..	38418b	85	1039	17.1	-69 38	10.4	10.4	Ao	2	..	21452b
36	5068	16.9	-45 9	10.5	9.3	Ao	3	..	38418b	86	574	17.1	-75 51	9.5	9.8	Fo	4	..	21453b
37	4613	16.9	-49 6	var.	var.	Md	..	R	M	87	1713	17.2	+45 7	9.3	9.7	F5	5	..	4904m
38	1063	16.9	-67 6	8.4	9.4	Ko	4	..	21452b	88	2176	17.2	+18 34	7.7	8.7	Ko	3	..	37607i
39	1037	16.9	-69 16	9.4	9.4	Ao	4	..	21452b	89	1956	17.2	+16 13	8.1	8.2	A2	5	..	37607i
40	494	16.9	-77 42	10.1	10.2	A2	2	..	21453b	90	2174	17.2	+4 48	8.21	8.21	Ao	5	..	37606i
41	428	16.9	-78 23	9.3	10.4	K2	3	..	21453b	91	2866	17.2	-2 43	9.5	10.0	F8	3	..	19392b
42	561	17.0	+70 47	7.38	8.16	G5	6	..	37706i	92	2809	17.2	-9 28	8.1	8.2	A2	4	..	18995b
43	1668	17.0	+47 8	9.8	10.1	F	2	..	4904m	93	6502	17.2	-27 22	8.1	9.3	K2	3	..	24494b
44	2027	17.0	+38 46	9.1	9.7	Go	2	..	37459i	94	7464	17.2	-30 23	7.93	8.2	A2	7	..	18927b
45	2026	17.0	+37 50	8.8	9.8	Ko	1	..	37459i	95	5594	17.2	-36 26	9.1	9.4	F5	3	..	18436b
46	2157	17.0	+6 44	8.4	9.0	Go	3	..	9462b	96	5495	17.2	-38 21	9.1	9.7	A5	2	..	18436b
47	2187	17.0	+1 55	8.9	10.0	K2	2	..	19340b	97	5425	17.2	-39 44	10.7	10.5	Ao	1	..	39925b
48	2246	17.0	-1 19	9.4	10.5	K2	1	..	19392b	98	5396	17.2	-45 5	10.0	10.1	A3	2	..	38418b
49	2247	17.0	-1 41	9.4	10.6	K5	1	..	19392b	99	4326	17.2	-49 29	8.4	8.7	Ko	3	..	39931b
50	2790	17.0	-7 33	9.0	9.5	F8	4	..	19231b	100	2244	17.2	-52 7	8.5	8.9	A3	3	..	39868b

THE HENRY DRAPER CATALOGUE.

80900

9^h 17^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1487	17.2	-58 47	8.9	8.8	A2	4	..	38748b	51	579	17.6	-74 28	5.45	5.45	Ao	..	0,9-	56,126
2	2237	17.3	+39 35	8.5	8.8	F2	2	..	37345i	52	147	17.6	-87 51	8.6	9.7	K2	3	0,2	22578b
3	2188	17.3	+2 18	8.4	9.2	G5	3	..	37606i	53	733	17.7	+64 23	6.46	7.53	K2	8	..	37517i
4	2190	17.3	+2 9	9.2	9.8	Go	4	..	19340b	54	1333	17.7	+55 8	8.9	9.9	Ko	3	..	38650i
5	2505	17.3	+0 15	9.9	10.4	F8	2	..	19340b	55	1715	17.7	+44 53	9.27	10.27	Ko	3	..	4904m
6	2781	17.3	-6 8	9.9	10.2	Fo	1	..	19231b	56	2088	17.7	+25 36	6.46	7.24	G5	6	0,4	38046i
7	7120	17.3	-25 45	8.9	8.2	B8	7	..	24494b	57	2166	17.7	+5 1	9.9	10.0	A2	2	..	19340b
8	5992	17.3	-33 54	7.69	8.2	Ko	4	2,4	18436b	58	2195	17.7	+3 47	8.9	9.4	F8	5	0,2	19340b
9	5596	17.3	-36 20	9.4	10.2	Go	2	..	18436b	59	2870	17.7	-3 5	9.5	10.5	Ko	1	..	19392b
10	4852	17.3	-47 8	9.2	9.8	Ko	1	..	39931b	60	2772	17.7	-22 10	9.0	9.6	G5	1	..	18977b
11	4044	17.3	-50 16	8.6	9.8	K2	1	..	38415b	61	2198	17.7	-54 56	9.4	9.4	A	1	..	39868b
12	431	17.3	-78 35	9.4	10.4	Ko	2	..	21453b	62	1353	17.7	-60 3	8.12	8.2	F5	5	..	38748b
13	312	17.3	-81 21	7.67	8.2	F5	6	..	20869b	63	1507	17.8	+51 21	8.7	9.7	Ko	1	..	38240i
14	1187	17.4	+60 26	8.1	8.7	Go	3	..	37705i	64	1497	17.8	+46 5	8.7	9.1	F5	6	0,2	4904m
15	1985	17.4	+33 55	7.8	7.8	B9	7	..	37741i	65	1909	17.8	+43 25	8.2	9.3	K2	4	0,1	4904m
16	2184	17.4	-0 39	7.9	7.9	Ao	3	..	37606i	66	1989	17.8	+34 59	7.22	8.22	Ko	5	..	37345i
17	2782	17.4	-5 37	7.10	7.16	A2	8	..	19231b	67	2077	17.8	+24 45	8.86	9.86	Ko	2	..	38646i
18	2878	17.4	-13 2	9.2	10.3	K2	1	..	21395b	68	2602	17.8	-4 37	7.46	8.46	Ko	7	..	19231b
19	8296	17.4	-23 42	8.7	8.0	Ao	7	..	18977b	69	2879	17.8	-12 19	10.4	10.8	F5	1	..	21395b
20	5015	17.4	-41 27	10.0	9.7	F2	4	..	38418b	70	2835	17.8	-14 48	6.70	7.70	Ko	7	..	13154b
21	5014	17.4	-41 48	9.4	9.1	F5	3	..	38418b	71	2835	17.8	-17 27	6.82	7.16	F2	7	..	41239b
22	5398	17.4	-44 37	7.5	7.7	A2	7	..	39931b	72	2587	17.8	-22 54	8.8	9.9	F5	1	..	18977b
23	5076	17.4	-45 9	10.9	10.4	A	1	..	38418b	73	5690	17.8	-37 28	9.4	9.9	Ao	1	..	18436b
24	5075	17.4	-45 34	10.2	9.5	B9	3	..	39931b	74	5433	17.8	-39 31	9.6	10.0	Ko	1	..	39925b
25	5108	17.4	-46 50	10.5	9.8	A2	1	..	39931b	75	5143	17.8	-40 40	9.3	9.4	Ao	2	..	39925b
26	1488	17.4	-58 30	7.9	9.1	Ko	4	..	38748b	76	5407	17.8	-45 2	10.0	9.8	Ao	2	..	38418b
27	1065	17.4	-67 15	8.9	9.5	Go	2	..	40074b	77	4623	17.8	-48 7	10.5	10.0	Ao	2	..	38415b
28	286	17.4	-83 56	9.8	9.9	A3	3	..	22238b	78	4048	17.8	-50 22	11.5	10.1	Ao	1	..	38415b
29	369	17.5	+77 36	8.9	9.9	Ko	2	..	37714i	79	2323	17.8	-53 40	9.3	9.4	A2	1	..	39868b
30	377	17.5	+75 33	6.29	6.35	A2	10	..	37714i	80	1005	17.8	-67 0	7.7	8.9	K5	6	..	21452b
31	2249	17.5	-2 8	9.12	10.12	Ko	3	..	19392b	81	432	17.8	-78 54	9.4	10.5	K2	4	..	21453b
32	7178	17.5	-28 18	8.1	8.9	Ko	4	..	24494b	82	1297	17.9	+53 49	8.1	9.2	K2	3	..	38650i
33	5430	17.5	-39 30	10.7	10.3	F2	1	..	39925b	83	1635	17.9	+50 43	7.06	7.84	G5	5	..	38240i
34	5203	17.5	-42 23	7.7	8.0	Ko	6	..	38418b	84	1952	17.9	+36 11	8.3	8.4	A3	2	..	37345i
35	5079	17.5	-45 35	8.5	8.3	F2	6	..	39931b	85	2177	17.9	+4 39	9.4	10.4	Ko	1	..	19340b
36	2248	17.5	-52 49	7.7	7.8	G5	6	..	39868b	86	2603	17.9	-4 25	8.4	8.7	Fo	3	..	19231b
37	1066	17.5	-67 18	9.0	9.4	F5	4	..	21452b	87	2792	17.9	-7 12	8.7	9.1	F5	4	..	19231b
38	711	17.6	+65 1	8.30	9.30	Ko	3	..	37517i	88	2880	17.9	-12 13	9.5	10.3	G5	2	..	21395b
39	1763	17.6	+48 23	9.3	10.1	G5	1	..	38240i	89	2837	17.9	-15 7	9.11	10.18	K2	1	..	13154b
40	2087	17.6	+22 38	9.7	9.8	A3	2	..	38646i	90	2764	17.9	-16 28	9.0	9.4	F5	2	..	13154b
41	2791	17.6	-8 2	8.4	8.7	F2	6	..	19231b	91	2774	17.9	-22 5	8.2	9.0	K2	3	..	18977b
42	2821	17.6	-10 37	9.7	10.1	F5	2	E	21395b	92	6512	17.9	-27 23	10.6	10.4	A2	2	..	24494b
43	7992	17.6	-24 55	9.9	10.4	A3	1	..	13281b	93	5818	17.9	-34 37	8.4	9.4	K2	2	..	18436b
44	5600	17.6	-36 45	8.7	9.9	Ko	1	..	18436b	94	5021	17.9	-41 18	10.7	10.2	Go	2	..	38418b
45	5432	17.6	-39 16	7.6	9.1	K2	3	..	18436b	95	5197	17.9	-43 39	10.2	10.5	Ko	1	..	38418b
46	4330	17.6	-49 10	8.8	8.7	A3	3	..	39931b	96	5117	17.9	-46 20	9.6	9.8	F8	1	..	39931b
47	4333	17.6	-49 52	10.5	10.3	Ko	1	..	38415b	97	5118	17.9	-46 47	8.9	9.2	Ko	3	..	39931b
48	2099	17.6	-56 3	8.2	9.1	K2	3	0,2	38748b	98	4866	17.9	-47 13	8.6	8.4	B8	3	..	39931b
49	1391	17.6	-60 7	9.12	9.7	K5	1	..	38748b	99	2102	17.9	-55 23	8.1	8.2	Ao	4	..	39868b
50	580	17.6	-74 18	6.02	6.02	Ao	..	0,7	56,126	100	1993	17.9	-57 50	8.9	9.2	Ao	3	..	38748b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

81000

9^h 17^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1354	m. 17.9	-59 28	9.1	10.3	K5	1	..	38748b	51	4056	m. 18.2	-50 39	9.8	9.5	Ao	1	..	39868b
2	1067	17.9	-67 23	8.9	9.2	F2	5	..	21452b	52	3727	18.2	-51 34	9.0	9.3	K5	2	..	39868b
3	78	18.0	+87 18	8.27	8.69	F5	3	..	37546i	53	2254	18.2	-52 42	9.0	9.8	G5	1	..	39868b
4	2239	18.0	+39 10	9.2	9.8	G	1	..	37459i	54	2112	18.2	-56 50	8.1	9.4	K2	2	..	38748b
5	1953	18.0	+35 58	8.9	9.5	Go	1	..	37345i	55	921	18.2	-68 20	var.	var.	Md	3	R	21452b
6	1990	18.0	+35 11	8.6	9.4	G5	1	..	37345i	56	581	18.2	-76 46	9.4	9.8	F5	3	..	21453b
7	2793	18.0	-7 27	9.7	10.3	Go	1	..	19231b	57	1988	18.3	+34 47	7.97	8.97	Ko	3	..	37345i
8	2794	18.0	-7 38	9.5	10.7	K5	1	..	19231b	58	1938	18.3	+26 20	6.82	7.82	Ko	5	..	37741i
9	2816	18.0	-9 24	6.53	6.59	A2	8	..	18995b	59	2785	18.3	-5 30	9.2	9.6	F5	2	..	19231b
10	2822	18.0	-10 45	9.0	9.5	F8	4	..	21395b	60	2767	18.3	-17 4	8.6	9.8	K5	1	..	41239b
11	2837	18.0	-17 14	9.7	10.7	Ko	1	..	13154b	61	5152	18.3	-40 20	10.2	10.3	Ao	2	..	18436b
12	2879	18.0	-20 44	9.2	9.3	A3	2	..	18977b	62	4627	18.3	-48 16	10.5	10.4	A	1	R	38415b
13	2589	18.0	-22 35	8.6	9.9	F8	2	..	18977b	63	4343	18.3	-49 14	9.4	8.9	A5	3	..	39931b
14	7191	18.0	-31 22	8.9	8.5	Ao	6	..	18927b	64	1358	18.3	-59 14	10.5	10.5	A	1	..	38748b
15	5819	18.0	-34 56	9.64	10.5	K	1	..	18436b	65	1390	18.4	+52 11	9.3	9.4	A3	2	..	38240i
16	5505	18.0	-39 0	8.7	9.4	F2	3	..	18436b	66	2315	18.4	+19 54	8.75	9.31	Go	3	..	37607i
17	5148	18.0	-40 21	9.0	9.1	Ao	4	..	18436b	67	2169	18.4	+5 39	6.81	6.87	A2	9	..	37606i
18	5212	18.0	-42 49	9.6	10.0	Ko	2	..	38418b	68	2180	18.4	+4 20	9.2	10.2	Ko	2	..	19340b
19	5199	18.0	-43 21	10.2	10.1	Go	1	..	38418b	69	2196	18.4	+2 50	7.50	8.50	Ko	5	..	37606i
20	5411	18.0	-44 30	9.4	9.8	A2	2	..	39931b	70	2186	18.4	-0 41	8.9	9.4	F8	2	..	19392b
21	5089	18.0	-45 26	9.6	9.6	Fo	2	..	39931b	71	2798	18.4	-7 14	8.6	9.7	K2	3	..	19231b
22	2201	18.0	-54 13	8.0	8.8	Ko	3	..	39868b	72	2841	18.4	-17 32	9.9	10.2	F	1	..	13154b
23	1492	18.0	-58 27	8.5	10.0	K5	2	..	38748b	73	6322	18.4	-32 11	9.3	9.7	Ko	1	..	13047b
24	1355	18.0	-59 21	10.2	10.2	A	1	..	38748b	74	5514	18.4	-38 57	7.30	8.9	K2	4	..	18436b
25	1389	18.1	+52 1	6.37	6.93	Go	7	..	38240i	75	5418	18.4	-44 37	10.5	10.4	Ao	1	..	38418b
26	1498	18.1	+46 37	9.0	9.8	G5	3	..	4904m	76	5094	18.4	-45 13	9.78	9.8	A2	2	..	38418b
27	1745	18.1	+28 21	8.1	8.5	F5	4	..	37741i	77	5123	18.4	-46 20	7.7	8.3	G5	6	..	39931b
28	2215	18.1	+8 9	7.25	8.60	Ma	5	5.4	9462b	78	2209	18.4	-54 58	8.26	9.2	K5	2	..	39868b
29	2178	18.1	+3 57	6.90	7.18	Fo	8	..	37606i	79	1393	18.4	-60 26	8.7	9.7	G5	2	..	38748b
30	2292	18.1	+1 20	9.9	9.9	Ao	3	..	19340b	80	1394	18.4	-60 35	8.5	8.8	Ao	4	..	38748b
31	2621	18.1	-11 17	8.6	9.2	Go	4	..	21395b	81	1006	18.4	-66 41	8.9	9.7	G5	2	..	21452b
32	2835	18.1	-13 23	8.4	9.4	Ko	4	..	21395b	82	1671	18.5	+47 46	8.7	9.7	Ko	1	..	38240i
33	2774	18.1	-16 7	9.2	9.7	F8	1	..	13154b	83	1716	18.5	+45 36	9.3	10.3	Ko	2	..	4904m
34	5023	18.1	-41 46	5.76	7.5	Ma	..	0.8	56,126	84	2089	18.5	+24 53	8.16	8.66	F8	4	..	38646i
35	5121	18.1	-46 53	7.6	7.7	A2	7	..	39931b	85	2181	18.5	+18 38	8.5	9.1	Go	1	..	37607i
36	4055	18.1	-50 58	8.3	8.6	A2	3	0.3	39868b	86	2197	18.5	+3 11	8.9	9.5	Go	4	..	19340b
37	1356	18.1	-59 57	8.56	10.2	K5	2	..	38748b	87	2827	18.5	-11 4	9.9	10.5	Go	2	..	21395b
38	1241	18.1	-61 34	7.0	7.6	B5	..	3.8	28,203	88	2882	18.5	-20 34	8.8	9.3	G5	3	..	41239b
39	1978	18.2	+37 2	6.45	6.59	A5	7	..	37345i	89	2780	18.5	-21 30	8.8	9.9	Ma	1	..	18977b
40	2314	18.2	+20 48	7.77	8.33	Go	5	..	37607i	90	7392	18.5	-29 26	9.5	9.3	Ao	2	..	13281b
41	2168	18.2	+5 0	9.4	10.4	Ko	1	..	19340b	91	7391	18.5	-30 5	7.81	8.1	A3	4	..	18927b
42	2795	18.2	-7 17	8.2	9.2	Ko	5	..	19231b	92	5442	18.5	-39 13	8.7	10.0	Ko	2	..	18436b
43	2840	18.2	-15 4	8.11	8.61	F8	4	..	13154b	93	5033	18.5	-41 21	9.0	10.0	Ko	1	..	38418b
44	7195	18.2	-31 44	9.7	9.3	Ko	1	..	18927b	94	5034	18.5	-41 51	9.4	10.3	F5	2	..	38418b
45	6008	18.2	-33 34	7.70	8.4	K2	4	0.3	18436b	95	5216	18.5	-43 1	9.4	10.3	K5	2	..	38418b
46	5822	18.2	-34 32	7.6	8.7	Ko	4	..	18436b	96	4871	18.5	-47 52	10.9	10.4	Fo	1	..	38415b
47	5622	18.2	-36 2	9.3	10.1	Ao	2	..	18436b	97	4628	18.5	-48 49	9.1	9.8	K2	1	..	39931b
48	5510	18.2	-38 32	10.4	10.3	A	1	..	18436b	98	2210	18.5	-54 16	9.0	9.4	B9	3	..	39868b
49	5204	18.2	-43 45	10.9	10.4	F5	1	..	38418b	99	1494	18.5	-58 15	8.4	10.6	Mb	2	..	38748b
50	4341	18.2	-49 18	8.3	8.4	G5	4	..	39931b	100	1495	18.5	-59 1	9.4	10.6	K5	1	..	38748b

THE HENRY DRAPER CATALOGUE.

81100

9^h 18^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1242	18.5	-61 58	4.86	6.6	Ko	..	0.9 R	28,203	51	7195	18.8	-28 11	8.5	9.3	F2	4	..	24494b
2	396	18.5	-79 6	9.4	10.4	Ko	4	..	21453b	52	7194	18.8	-28 51	8.2	9.6	Ko	3	..	13281b
3	289	18.5	-83 19	7.81	8.9	K5	4	..	22238b	53	5828	18.8	-34 26	8.0	8.2	Ao	7	..	18436b
4	1299	18.6	+54 28	7.36	7.42	A2	7	..	37705i	54	5133	18.8	-46 25	9.4	8.9	B9	4	..	39931b
5	1500	18.6	+46 33	9.0	10.0	Ko	3	..	4904m	55	5132	18.8	-47 2	9.2	9.3	Fo	3	..	39931b
6	1910	18.6	+43 9	9.3	9.7	F5	3	..	4904m	56	4634	18.8	-48 12	10.0	10.1	Fo	2	..	38415b
7	2080	18.6	+24 1	7.26	8.26	Ko	5	..	38646i	57	2213	18.8	-55 5	5.66	6.0	A2	..	0.8	28,203
8	2087	18.6	+12 49	8.7	9.5	G5	2	..	38283i	58	1497	18.8	-58 25	9.6	9.7	A2	1	..	38748b
9	2886	18.6	-20 36	7.13	8.7	Ma	5	..	41239b	59	1244	18.8	-61 31	8.9	9.2	Ao	3	..	40096b
10	6993	18.6	-26 45	8.2	8.6	G5	5	..	24494b	60	1068	18.8	-67 56	9.2	10.0	G5	3	..	21452b
11	5701	18.6	-38 2	8.4	9.6	Ko	2	..	18436b	61	735	18.9	+64 47	8.25	8.31	A2	4	..	37571i
12	5517	18.6	-38 53	7.8	8.8	Ko	4	..	18436b	62	1750	18.9	+27 7	8.5	8.6	A2	2	..	37741i
13	5445	18.6	-39 21	10.4	9.4	Ao	2	..	18436b	63	2182	18.9	+18 35	7.12	7.68	Go	6	2.6 R	38283i
14	5220	18.6	-42 43	10.5	9.7	A2	3	..	38418b	64	2181	18.9	+4 43	8.75	9.53	G5	1	..	37606i
15	5095	18.6	-45 41	10.0	9.6	Ao	2	..	39931b	65	2293	18.9	+1 1	8.9	10.1	K5	1	..	19340b
16	5128	18.6	-46 42	10.2	9.6	A5	2	..	39931b	66	2608	18.9	-4 55	7.75	8.82	K2	5	..	19231b
17	4348	18.6	-49 36	10.2	9.6	Go	2	..	38415b	67	2782	18.9	-21 23	8.0	7.7	Ao	8	..	18977b
18	2334	18.6	-53 36	8.7	9.7	K	1	..	39868b	68	7143	18.9	-25 44	8.9	9.6	K2	3	..	24494b
19	..	18.6	-57 53	Neb.	Neb.	Pd	2	R	76,22	69	7196	18.9	-28 24	4.90	6.6	Ko	..	R	56,86
20	1102	18.6	-65 49	9.2	10.2	Ko	3	..	21452b	70	5642	18.9	-35 38	9.3	9.9	Ao	2	..	18436b
21	1042	18.6	-69 36	10.0	10.0	Ao	3	..	21452b	71	5164	18.9	-40 19	8.7	9.4	G5	3	..	18436b
22	582	18.6	-76 21	9.3	9.6	Fo	4	..	21453b	72	5134	18.9	-46 24	8.9	8.3	B9	6	..	39931b
23	2029	18.7	+10 59	8.3	9.4	K2	2	..	38283i	73	4636	18.9	-48 38	10.2	10.4	Ko	1	..	38415b
24	2165	18.7	+6 10	8.9	8.9	Ao	3	..	9462b	74	2218	18.9	-54 7	8.4	8.9	G5	4	..	39868b
25	2195	18.7	+1 52	7.7	8.0	Fo	6	..	37606i	75	1402	18.9	-60 24	7.36	7.4	Ao	7	..	38748b
26	2828	18.7	-10 23	8.6	9.4	G5	5	..	21395b	76	1246	18.9	-61 36	9.3	9.7	F5	1	..	40096b
27	2623	18.7	-11 15	9.1	9.1	Ao	4	..	21395b	77	1043	18.9	-69 13	10.0	10.3	Fo	3	..	21452b
28	2660	18.7	-18 59	8.6	9.0	F5	2	..	13154b	78	878	18.9	-70 34	7.2	7.5	F2	5	..	22988b
29	6995	18.7	-26 51	9.2	11.3	Ao	3	..	24494b	79	588	18.9	-73 25	8.9	9.0	A2	2	..	22988b
30	7192	18.7	-28 17	8.9	9.2	F2	3	..	24494b	80	1301	19.0	+54 10	9.0	10.0	Ko	3	..	38650i
31	7193	18.7	-28 34	8.9	10.1	K2	2	..	24494b	81	1911	19.0	+43 34	10.3	11.3	K	1	..	4904m
32	7487	18.7	-30 32	8.7	9.7	Ko	1	..	13281b	82	2667	19.0	-4 6	8.8	9.9	K2	2	..	19392b
33	5827	18.7	-35 5	7.16	7.8	F8	7	..	18436b	83	2609	19.0	-5 2	7.25	8.43	K5	7	..	19231b
34	5446	18.7	-39 21	6.50	7.6	Ko	7	..	18436b	84	2610	19.0	-5 6	8.55	9.05	F8	3	..	19231b
35	5215	18.7	-43 40	8.4	7.7	Ao	3	0.7	35949b	85	7200	19.0	-28 12	9.7	10.1	F5	2	..	13281b
36	5099	18.7	-45 37	6.00	7.6	G5	9	5.7	39931b	86	7199	19.0	-28 40	8.2	10.1	K5	1	..	13281b
37	2262	18.7	-52 8	7.4	9.2	Ma	3	..	39868b	87	7401	19.0	-30 3	8.60	8.5	F2	4	..	13281b
38	2115	18.7	-56 28	7.2	8.0	Ko	6	0.4	38748b	88	2219	19.0	-54 35	2.63	2.46	B3	..	R	28,203
39	1398	18.7	-60 8	8.26	8.6	Ao	5	..	38748b	89	499	19.0	-77 13	9.3	9.8	F8	3	..	21453b
40	..	18.7	-65 27	..	..	Ao	2	..	21452b	90	464	19.1	+73 25	9.8	9.8	A	2	..	37714i
41	1103	18.7	-66 4	7.5	7.5	B9	8	..	21452b	91	1981	19.1	+37 41	8.7	9.3	Go	3	..	37345i
42	1007	18.7	-66 56	9.5	9.5	Ao	3	..	21452b	92	2318	19.1	+20 14	6.67	7.45	G5	6	..	37607i
43	802	18.7	-72 53	7.5	7.5	Ao	8	..	22988b	93	2183	19.1	+18 8	7.17	8.24	K2	4	0.3	37607i
44	1717	18.8	+45 3	7.82	8.82	Ko	7	0.1	4904m	94	2187	19.1	-0 57	9.6	10.4	G5	1	..	19392b
45	1861	18.8	+44 27	8.02	9.02	Ko	6	0.4	4904m	95	2611	19.1	-4 52	8.6	9.6	Ko	3	..	19231b
46	1939	18.8	+26 37	4.61	5.61	Ko	..	R	56,86	96	2624	19.1	-11 22	9.5	10.6	K2	1	..	21395b
47	2778	18.8	-15 22	8.2	9.3	K2	4	..	13154b	97	2842	19.1	-14 40	9.2	9.3	A2	3	..	13154b
48	2770	18.8	-16 14	7.28	7.26	B9	7	..	41239b	98	2843	19.1	-17 19	8.8	8.9	A2	2	..	41239b
49	2781	18.8	-21 48	8.6	9.3	Ko	2	..	18977b	99	5452	19.1	-39 31	9.0	9.4	K2	3	..	18436b
50	6526	18.8	-27 32	8.9	9.5	Ao	4	..	24494b	100	4875	19.1	-47 19	8.8	10.0	K5	1	..	39931b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

81200

9^h 19^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4637	19.1	m. ° ' 48 59	8.6	8.6	A5	5	..	39931b	51	2788	19.4	m. ° ' 5 40	8.7	9.8	K2	3	..	19231b
2	4352	19.1	49 48	7.90	8.0	B9	5	..	39931b	52	2625	19.4	11 50	10.9	11.5	Go	1	..	21395b
3	2002	19.1	57 54	9.0	9.2	A2	3	..	38748b	53	8028	19.4	24 12	8.7	10.1	Ko	1	..	13323b
4	1249	19.1	61 19	9.4	9.4	B9	2	..	40096b	54	6340	19.4	32 46	6.75	7.3	Ao	8	..	18927b
5	1223	19.1	62 35	9.2	9.2	Ao	3	..	40096b	55	5717	19.4	37 54	8.7	9.6	Ko	1	..	18436b
6	1070	19.1	67 56	7.9	8.9	Ko	7	..	21452b	56	5045	19.4	41 51	10.9	10.3	Ao	2	..	38418b
7	1838	19.2	+49 23	9.5	9.6	A2	2	..	3824oi	57	5429	19.4	44 8	10.2	10.4	G5	1	..	38418b
8	1672	19.2	+46 57	10.0	10.6	Go	1	..	4904m	58	5140	19.4	46 53	8.3	8.3	Fo	6	..	39931b
9	1864	19.2	+29 59	8.81	8.79	B9	4	..	37741i	59	4882	19.4	47 14	8.3	8.1	F5	5	..	39931b
10	2091	19.2	+25 41	8.1	8.2	A2	2	..	37741i	60	4354	19.4	49 22	10.0	9.5	F5	1	..	39931b
11	2175	19.2	+9 49	8.72	9.72	Ko	1	..	38283i	61	2273	19.4	53 0	8.5	8.6	Ao	4	..	39868b
12	2169	19.2	+6 47	6.81	7.23	F5	7	..	37606i	62	1404	19.4	60 29	8.6	8.8	A3	3	..	38748b
13	2171	19.2	+5 12	8.0	8.1	A2	7	..	37606i	63	147	19.5	+85 32	8.7	9.9	K5	2	..	37546i
14	2612	19.2	-4 36	9.0	10.0	Ko	2	..	19392b	64	1995	19.5	+35 35	7.9	8.3	F5	5	..	37345i
15	2832	19.2	-10 39	8.7	9.5	G5	4	..	21395b	65	1978	19.5	+30 56	7.77	8.55	G5	4	..	37741i
16	2779	19.2	-15 31	9.5	10.3	G5	1	..	13154b	66	2509	19.5	-0 3	9.38	10.16	G5	3	..	19340b
17	2888	19.2	-20 20	9.18	9.9	Ao	1	..	41239b	67	2899	19.5	-6 27	8.0	9.1	K2	5	..	19231b
18	7203	19.2	-28 38	8.9	10.1	Ko	2	..	13281b	68	2666	19.5	-8 59	9.0	9.6	Go	1	..	19231b
19	5042	19.2	-41 50	10.4	10.3	A2	2	..	38418b	69	2887	19.5	-12 25	8.6	9.6	Ko	2	..	21395b
20	3744	19.2	-51 42	9.1	8.6	Ao	5	..	39868b	70	2780	19.5	-15 35	9.1	9.7	Go	3	..	13154b
21	2345	19.2	-54 2	8.2	8.8	Go	4	..	39868b	71	2775	19.5	-17 3	9.5	10.6	K2	1	..	41239b
22	2118	19.2	-55 32	var.	var.	G5	4	R	39868b	72	5625	19.5	-36 56	10.0	9.9	Go	1	..	18436b
23	1071	19.2	-67 42	8.4	9.2	G5	4	..	21452b	73	5719	19.5	-37 42	9.1	9.4	Ao	3	..	18436b
24	1045	19.2	-69 32	9.2	10.4	K5	2	..	21452b	74	5455	19.5	-39 56	8.7	8.5	Ao	5	..	18436b
25	2203	19.3	+40 7	8.1	8.9	G5	2	..	37459i	75	5235	19.5	-42 28	10.9	10.9	K2	1	..	38418b
26	1982	19.3	+36 55	8.6	9.7	K2	1	..	37345i	76	5430	19.5	-44 32	7.8	8.3	Ao	6	0.3	39931b
27	2092	19.3	+23 13	8.1	9.1	Ko	3	..	38646i	77	4647	19.5	-48 17	10.0	9.8	A5	1	..	38415b
28	2033	19.3	+11 23	8.3	8.7	F5	3	..	38283i	78	3747	19.5	-51 42	8.9	9.2	K2	3	..	39868b
29	2508	19.3	+0 37	8.9	10.0	K2	2	..	19340b	79	2123	19.5	-55 48	8.6	9.1	A2	2	..	39868b
30	8331	19.3	-23 13	7.6	8.0	F2	6	..	18977b	80	1224	19.5	-62 38	8.2	9.2	Ko	3	..	40096b
31	6535	19.3	-27 54	9.5	9.6	Ao	3	..	24494b	81	1024	19.5	-64 12	8.7	9.1	F5	3	..	21452b
32	7411	19.3	-29 44	9.2	10.5	Ko	1	..	13281b	82	370	19.6	+77 30	8.7	9.0	F2	5	..	37714i
33	5526	19.3	-38 18	10.2	10.0	Ao	2	..	18436b	83	1502	19.6	+46 45	10.0	11.1	K2	1	..	4904m
34	5231	19.3	-42 38	10.0	10.3	Go	1	..	38418b	84	1899	19.6	+29 19	8.9	9.4	F8	2	..	37741i
35	4880	19.3	-47 20	10.2	10.1	Ao	1	..	39931b	85	2035	19.6	+10 51	8.4	8.5	A2	3	..	38283i
36	4881	19.3	-47 53	10.9	10.7	F8	1	..	38415b	86	2782	19.6	-15 55	9.0	10.1	K2	2	..	13154b
37	4642	19.3	-48 50	9.0	8.6	Ao	5	..	39931b	87	5652	19.6	-35 22	9.3	9.6	Ao	2	..	18436b
38	2347	19.3	-53 18	8.2	8.2	F5	5	..	39868b	88	5527	19.6	-38 9	8.5	8.8	F5	4	..	18436b
39	1252	19.3	-61 37	9.9	9.9	A	2	..	40096b	89	5225	19.6	-43 10	8.6	8.4	A2	5	..	38418b
40	1118	19.3	-64 5	9.2	10.2	Ko	2	..	21452b	90	4649	19.6	-48 37	8.8	8.7	Fo	5	..	39931b
41	..	19.3	-65 47	..	..	K2	2	..	21452b	91	2277	19.6	-52 15	9.3	9.3	Ao	2	..	39868b
42	589	19.3	-73 29	9.6	9.6	Ao	3	..	21453b	92	1502	19.6	-58 9	9.6	9.6	Ao	2	..	38748b
43	318	19.3	-81 48	8.7	8.7	Ao	4	..	20869b	93	1501	19.6	-58 18	8.1	8.5	B8	6	..	38748b
44	1638	19.4	+50 3	9.5	10.1	G	1	..	3824oi	94	1119	19.6	-63 12	9.1	9.2	A2	2	..	40096b
45	2243	19.4	+39 47	8.67	9.67	Ko	1	..	37459i	95	926	19.6	-68 59	8.9	9.7	G5	4	..	21452b
46	2030	19.4	+38 20	7.9	8.3	F5	3	..	37345i	96	465	19.7	+73 1	8.9	9.0	A3	2	..	37714i
47	2093	19.4	+25 11	8.5	9.0	F8	2	..	38646i	97	1770	19.7	+48 7	8.6	9.6	Ko	2	..	3824oi
48	2209	19.4	+19 11	8.9	9.3	F5	2	..	37607i	98	1996	19.7	+35 42	8.2	8.6	F5	3	..	37345i
49	1991	19.4	+9 58	8.47	8.75	Fo	3	5,2	38283i	99	1859	19.7	+33 12	7.9	8.7	G5	5	..	37741i
50	2178	19.4	+8 54	8.9	9.3	F5	2	..	9462b	100	2094	19.7	+23 2	9.2	10.0	G5	1	..	38646i

THE HENRY DRAPER CATALOGUE.

81300

9^h 19^m 7^s

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2043	19.7	+15 16	9.4	10.4	Ko	1	..	38283i	51	2279	19.9	-52 27	7.9	8.0	F2	7	..	39868b
2	2197	19.7	+1 57	8.1	8.6	F8	3	..	37606i	52	2355	19.9	-53 11	8.4	9.2	Ko	2	..	39868b
3	2294	19.7	+1 27	8.9	9.7	G5	3	..	19340b	53	2356	19.9	-53 23	7.1	7.9	G5	6	..	39868b
4	2789	19.7	-5 33	9.1	9.6	F8	3	..	19231b	54	2126	19.9	-55 18	9.4	9.4	B9	1	..	39868b
5	2627	19.7	-11 40	9.9	11.0	K2	1	..	21395b	55	1009	19.9	-66 43	9.1	10.2	K2	2	..	21452b
6	2846	19.7	-18 1	9.0	10.0	Ko	1	..	13154b	56	563	20.0	+69 49	9.04	9.04	A	2	..	37706i
7	5839	19.7	-34 49	6.64	6.8	Ao	9	..	18436b	57	1190	20.0	+58 35	7.9	7.9	B8	5	..	37705i
8	5631	19.7	-36 14	8.0	9.9	K2	2	..	18436b	58	1673	20.0	+46 52	9.3	9.4	A3	3	..	4904m
9	5721	19.7	-37 19	6.48	6.8	A2	7	3,9	9427b	59	1941	20.0	+26 39	8.8	9.9	K2	2	..	38646i
10	5460	19.7	-39 24	10.9	10.3	A	1	..	18436b	60	2095	20.0	+23 4	9.1	9.2	A3	3	..	38646i
11	5458	19.7	-40 3	9.34	10.3	K2	1	..	39925b	61	2078	20.0	+17 1	6.27	7.27	Ko	7	0,8	37607i
12	5240	19.7	-42 52	9.8	10.3	Ko	1	..	38418b	62	2510	20.0	+0 17	9.0	9.5	F8	4	..	19340b
13	5229	19.7	-43 28	9.1	9.3	G5	2	..	38418b	63	2511	20.0	+0 1	9.0	10.1	K2	3	..	19340b
14	3753	19.7	-51 28	9.1	9.0	B8	5	..	39868b	64	2668	20.0	-19 9	9.2	9.4	Fo	3	..	13154b
15	2004	19.7	-57 40	8.6	9.8	K5	2	..	38748b	65	2599	20.0	-22 17	9.0	9.6	Ko	2	..	18997b
16	1368	19.7	-60 2	9.36	9.9	Ko	2	..	38748b	66	8040	20.0	-24 59	9.15	9.3	G5	1	..	13323b
17	1025	19.7	-65 6	10.1	10.2	A2	2	..	21452b	67	7424	20.0	-29 59	9.55	8.8	Ao	3	..	13281b
18	1104	19.7	-65 16	9.6	9.7	A2	3	..	21452b	68	5173	20.0	-40 37	10.2	9.7	Ao	1	..	39925b
19	1008	19.7	-66 38	9.2	10.2	Ko	1	..	21452b	69	5146	20.0	-46 28	6.59	6.4	B9	6	1,10	46200b
20	927	19.7	-68 52	7.6	7.6	Ao	4	..	22988b	70	2281	20.0	-52 19	8.9	8.6	Bo	4	..	39868b
21	502	19.7	-78 0	8.1	8.4	Fo	8	..	21453b	71	1507	20.0	-58 8	8.4	8.7	B9	5	..	38748b
22	1718	19.8	+45 32	9.3	9.8	F8	3	..	4904m	72	592	20.0	-73 10	7.1	7.1	Ao	3	..	24452b
23	1719	19.8	+45 1	8.7	9.7	Ko	3	..	4904m	73	2173	20.1	+6 41	7.52	8.52	Ko	3	0,3	9462b
24	1992	19.8	+9 55	8.42	9.42	Ko	2	0,1	38283i	74	2189	20.1	-0 39	9.4	10.2	G5	1	..	19392b
25	2184	19.8	+4 27	8.5	9.3	G5	1	..	37606i	75	2825	20.1	-9 56	8.8	9.2	F5	4	..	21395b
26	2803	19.8	-7 45	9.0	9.1	A2	3	..	22976b	76	2834	20.1	-10 30	7.71	7.71	Ao	8	..	21395b
27	2703	19.8	-19 42	9.1	10.2	K2	2	..	13154b	77	2787	20.1	-15 12	7.51	8.51	Ko	7	..	13154b
28	5724	19.8	-37 46	8.7	10.5	K5	1	..	18436b	78	7219	20.1	-28 45	7.65	8.7	K5	5	..	13281b
29	5169	19.8	-41 0	10.0	10.0	A2	2	..	38418b	79	5174	20.1	-40 41	9.0	9.4	G5	2	..	39925b
30	5050	19.8	-41 9	8.8	8.9	A2	3	..	38418b	80	2232	20.1	-54 38	8.7	9.4	G5	1	..	39868b
31	5051	19.8	-41 50	8.7	9.1	A2	5	..	38418b	81	1370	20.1	-59 50	9.1	10.1	K2	1	..	38748b
32	5239	19.8	-42 21	10.2	10.0	F8	3	..	38418b	82	616	20.2	+66 1	8.8	9.8	Ko	1	..	37517i
33	5117	19.8	-45 50	9.2	9.0	A2	2	..	39931b	83	1640	20.2	+50 9	8.1	9.5	Ma	2	..	38240i
34	5144	19.8	-46 27	9.6	9.3	F5	2	..	39931b	84	1863	20.2	+44 36	9.3	9.7	F5	2	..	4904m
35	4087	19.8	-50 8	9.04	8.9	Ao	3	0,2	39931b	85	1913	20.2	+43 27	8.8	9.8	Ko	3	..	4904m
36	2125	19.8	-55 13	9.46	9.4	Ao	1	..	39868b	86	1960	20.2	+36 9	8.7	9.7	Ko	1	..	37345i
37	1256	19.8	-61 22	9.0	9.0	Ao	2	..	38748b	87	1900	20.2	+29 6	8.1	8.6	F8	4	..	37741i
38	1383	19.9	+56 39	8.7	9.7	Ko	2	..	38224i	88	2028	20.2	+20 49	8.8	9.6	G5	1	..	37607i
39	1504	19.9	+46 38	10.3	11.1	G5	1	..	4904m	89	2185	20.2	+4 43	7.80	7.80	Ao	6	..	37606i
40	2092	19.9	+14 38	9.2	10.4	K5	1	..	38283i	90	2190	20.2	-0 25	7.9	8.0	A2	5	..	37606i
41	2188	19.9	-0 47	9.4	10.4	Ko	1	..	19392b	91	2876	20.2	-2 13	9.1	10.1	Ko	1	..	19392b
42	2672	19.9	-3 51	6.88	7.30	F5	10	..	19392b	92	2628	20.2	-11 39	9.5	9.5	Ao	4	..	21395b
43	2614	19.9	-4 38	9.2	9.7	F8	3	..	19392b	93	2888	20.2	-12 51	9.2	10.3	K2	1	..	21395b
44	2790	19.9	-5 34	8.5	9.9	Ma	3	..	19231b	94	2847	20.2	-17 39	8.0	9.0	Ko	4	..	41239b
45	2598	19.9	-22 29	8.8	9.3	K5	2	..	13323b	95	6554	20.2	-27 34	8.0	8.6	A3	6	..	24494b
46	6343	19.9	-32 25	9.0	9.3	K2	1	..	13047b	96	7223	20.2	-28 38	8.2	9.2	K2	3	..	13281b
47	4890	19.9	-47 51	6.64	7.0	B5	..	3,7-	28,203	97	6039	20.2	-33 14	8.2	8.4	F5	3	0,3	18436b
48	4656	19.9	-48 41	9.4	9.2	A3	3	..	39931b	98	5175	20.2	-40 39	8.4	9.1	Go	2	..	39925b
49	4361	19.9	-49 10	9.8	9.3	Ao	3	0,2	38415b	99	5058	20.2	-41 26	9.4	10.3	Ko	1	..	38418b
50	3757	19.9	-51 22	8.5	8.4	B5	7	..	39868b	100	5244	20.2	-42 42	10.9	10.6	A2	1	..	38418b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

81400

9^h 20^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5151	20.2	-46 37	8.5	8.0	Ao	6	..	39931b	51	2206	20.5	-52 50	8.3	8.3	F5	4	..	39868b
2	4894	20.2	-47 42	10.0	10.0	Ao	1	..	39931b	52	2239	20.5	-54 27	9.7	9.7	Ao	2	..	39868b
3	2235	20.2	-54 36	9.4	9.4	B8	1	..	39868b	53	1262	20.5	-61 49	8.6	9.9	G5	2	..	40096b
4	1409	20.2	-60 39	8.5	9.1	F5	3	..	38748b	54	..	20.5	-65 46	..	..	Ko	1	..	21452b
5	1773	20.3	+48 13	7.56	7.62	A2	5	R	38240i	55	1105	20.5	-65 59	9.4	10.2	G5	1	..	21452b
6	2036	20.3	+11 1	8.7	9.0	F2	2	..	38283i	56	438	20.5	-78 42	9.1	9.1	Ao	8	..	21453b
7	2669	20.3	-8 40	9.1	9.6	F8	1	..	19231b	57	736	20.6	+64 49	8.35	8.85	F8	3	..	37517i
8	2889	20.3	-12 31	9.5	10.3	G5	1	..	21395b	58	1641	20.6	+49 53	9.42	9.92	F8	1	..	38240i
9	2778	20.3	-16 47	7.30	7.64	F2	7	..	41239b	59	1720	20.6	+45 14	9.3	9.6	F2	1	..	4904m
10	8347	20.3	-23 23	7.6	8.5	K2	3	..	18977b	60	1864	20.6	+44 2	9.5	10.5	Ko	1	..	4904m
11	5541	20.3	-38 59	6.18	6.7	A2	6	0,10	35949b	61	1984	20.6	+31 38	8.6	9.4	G5	2	..	37741i
12	5469	20.3	-39 20	9.4	9.7	Ao	2	..	18436b	62	2181	20.6	+9 14	8.1	8.1	Ao	3	..	38283i
13	5471	20.3	-40 5	9.04	10.0	Ko	1	..	39925b	63	2198	20.6	+2 22	8.9	8.9	Ao	3	..	19340b
14	5445	20.3	-45 2	9.64	9.3	Ao	2	..	39931b	64	2795	20.6	-5 26	8.2	8.6	F5	7	..	19231b
15	1047	20.3	-69 36	9.0	10.0	Ko	2	..	21452b	65	2846	20.6	-14 12	9.2	9.3	A2	1	..	13154b
16	1752	20.4	+28 29	10.0	10.1	A5	1	..	37741i	66	2790	20.6	-15 29	9.5	10.3	G5	2	..	13154b
17	1942	20.4	+26 1	8.7	9.2	F8	2	..	37741i	67	2779	20.6	-16 40	9.1	9.9	G5	1	..	13154b
18	2212	20.4	+19 20	8.3	8.3	Ao	2	..	37607i	68	5250	20.6	-43 27	8.4	8.0	Ao	6	0,3	38418b
19	2297	20.4	+1 25	9.9	10.9	Ko	2	..	19340b	69	5248	20.6	-43 44	10.9	10.9	Ao	2	..	38418b
20	2616	20.4	-4 41	5.81	6.99	K5	..	5,8	56,126	70	5154	20.6	-46 17	10.0	9.8	A2	2	..	39931b
21	2794	20.4	-5 58	7.8	7.9	A3	10	..	19231b	71	3767	20.6	-51 18	6.14	7.6	Fop	..	2,3 R	56,126
22	2826	20.4	-9 24	8.8	9.8	Ko	3	..	21395b	72	2298	20.6	-52 58	8.9	8.9	Ao	3	..	39868b
23	2827	20.4	-9 46	9.2	9.3	A2	3	..	21395b	73	1073	20.6	-67 37	9.3	9.9	G	1	..	21452b
24	2629	20.4	-12 2	9.9	10.5	Go	1	..	21395b	74	456	20.7	+72 46	7.9	8.2	Fo	4	..	37714i
25	6558	20.4	-27 16	9.5	10.0	F5	1	..	13281b	75	2515	20.7	+0 46	9.29	9.71	F5	3	..	19340b
26	7431	20.4	-29 51	9.7	9.7	F	1	..	13281b	76	2192	20.7	-0 20	8.98	9.12	A5	5	..	19340b
27	5640	20.4	-36 39	10.2	10.5	Ao	1	..	18436b	77	2828	20.7	-9 27	9.2	9.5	Fo	3	..	21395b
28	5543	20.4	-38 23	9.1	10.2	Ko	2	..	18436b	78	2848	20.7	-14 23	10.1	10.6	F8	1	..	13154b
29	5542	20.4	-38 40	9.3	9.1	Ao	4	..	18436b	79	2898	20.7	-20 21	8.58	9.0	A3	4	..	41239b
30	5248	20.4	-42 57	10.5	10.2	Ao	2	..	38418b	80	5742	20.7	-37 26	10.0	10.2	F8	1	..	18436b
31	5448	20.4	-44 34	9.6	9.8	A2	3	..	38418b	81	5741	20.7	-37 38	9.3	10.4	G5	1	..	18436b
32	4658	20.4	-48 26	var.	var.	Md	2	0,2 R	38415b	82	5181	20.7	-40 20	10.4	10.0	Ao	1	..	39925b
33	3764	20.4	-52 0	7.8	7.8	Fo	7	..	39868b	83	2132	20.7	-56 48	8.9	8.9	A5	3	..	38748b
34	2138	20.4	-55 25	9.1	9.2	A2	2	..	39868b	84	1010	20.7	-67 5	9.5	9.5	Ao	4	..	21452b
35	1372	20.4	-59 7	7.9	8.2	Ao	7	..	38748b	85	503	20.7	-77 13	7.5	8.3	G5	5	..	21453b
36	1232	20.4	-62 13	10.1	10.1	Ao	1	..	40096b	86	401	20.7	-79 18	9.3	9.4	A2	2	..	20869b
37	256	20.5	+83 22	7.12	7.54	F5	6	3,8	37465i	87	1072	20.8	+62 10	7.9	9.1	K5	2	..	37517i
38	520	20.5	+69 13	9.3	10.1	G5	1	..	37706i	88	1860	20.8	+32 31	8.6	8.9	Fo	4	..	37741i
39	1961	20.5	+41 28	7.72	8.79	K2	4	0,3	37459i	89	2187	20.8	+4 42	9.05	10.12	K2	3	..	19340b
40	1984	20.5	+36 55	6.90	7.32	F5	6	..	37345i	90	2202	20.8	+3 28	7.7	8.5	G5	5	..	37606i
41	2186	20.5	+4 7	10.6	10.9	F2	2	..	19340b	91	2299	20.8	+1 2	8.3	8.4	A5	4	0,8	37606i
42	2298	20.5	+1 31	9.2	9.7	F8	2	..	19340b	92	2835	20.8	-11 9	9.2	9.7	F8	3	..	21395b
43	2513	20.5	+0 7	10.6	10.9	Fo	3	..	19340b	93	2791	20.8	-15 39	8.6	8.9	Fo	5	..	41239b
44	2257	20.5	-1 35	9.4	10.2	G5	1	..	19392b	94	2900	20.8	-20 40	8.6	9.9	G5	1	..	13323b
45	2877	20.5	-2 59	8.2	9.2	Ko	3	..	19392b	95	5649	20.8	-36 48	9.4	10.5	Ko	1	..	18436b
46	2846	20.5	-13 30	9.7	10.9	K5	1	..	21395b	96	5644	20.8	-36 52	8.4	10.1	G5	2	..	18436b
47	2847	20.5	-13 36	9.1	9.6	F8	5	..	21395b	97	5743	20.8	-37 16	9.6	9.9	Fo	2	..	18436b
48	2788	20.5	-15 57	8.4	9.4	Ko	3	..	41239b	98	5183	20.8	-40 15	8.88	9.7	Ko	1	..	39925b
49	5642	20.5	-36 30	8.0	9.1	B9	6	..	18436b	99	5255	20.8	-42 50	9.6	9.4	Go	2	..	38418b
50	5153	20.5	-46 31	10.2	9.8	A3	2	..	39931b	100	2245	20.8	-54 24	8.6	8.8	B9	4	..	39868b

THE HENRY DRAPER CATALOGUE.

81500

9^h 20^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2244	20.8	-54 59	9.8	9.8	A	1	..	39868b	51	2607	21.2	-22 23	8.2	9.6	K5	1	..	13322b
2	1374	20.8	-59 52	6.34	8.7	Ko	7	..	38748b	52	7037	21.2	-27 1	8.1	11.0	Ma	1	..	13281b
3	929	20.8	-68 12	9.5	10.6	K2	1	..	21452b	53	7448	21.2	-30 6	9.2	9.7	F5	2	..	13281b
4	575	20.8	-75 17	7.3	7.3	B9	8	..	21453b	54	5667	21.2	-35 30	8.7	10.5	F8	3	..	18436b
5	1944	20.9	+26 48	8.6	9.4	G5	2	..	37741i	55	5668	21.2	-35 57	7.6	8.8	A3	5	..	18436b
6	2215	20.9	+19 30	7.55	7.63	A3	6	0,7	37607i	56	5553	21.2	-38 10	8.7	9.4	A2	4	..	18436b
7	2203	20.9	+3 8	9.2	10.2	Ko	2	..	19340b	57	2251	21.2	-54 47	10.1	10.1	A	1	..	39868b
8	2200	20.9	+2 47	9.6	10.4	G5	2	..	19340b	58	1029	21.2	-64 21	9.2	10.0	G5	2	..	21452b
9	2201	20.9	+2 8	8.3	9.4	K2	2	..	19340b	59	584	21.2	-74 50	8.9	9.5	G	3	..	21453b
10	2830	20.9	-10 4	8.61	8.89	Fo	5	..	21395b	60	1506	21.3	+46 12	8.1	9.1	Ko	5	0,2	4904m
11	2631	20.9	-11 20	9.9	10.9	Ko	2	..	21395b	61	1723	21.3	+45 22	9.1	9.2	A3	4	..	4904m
12	2891	20.9	-12 53	8.0	9.0	Ko	5	..	21395b	62	1867	21.3	+44 19	10.3	11.1	G5	1	..	4904m
13	2850	20.9	-14 14	9.1	10.5	Ma	..	..	M	63	2048	21.3	+15 23	8.1	8.7	Go	3	..	38283i
14	7180	20.9	-25 10	9.65	9.9	F8	2	..	13281b	64	2089	21.3	+12 56	9.4	10.4	Ko	1	..	38283i
15	5664	20.9	-35 28	7.59	8.4	A3	7	..	18436b	65	2220	21.3	+8 7	8.5	9.6	K2	2	..	9462b
16	5256	20.9	-42 35	9.6	10.3	Ko	1	..	38418b	66	2127	21.3	+6 58	7.9	8.3	F5	7	..	9462b
17	4666	20.9	-48 13	8.9	9.2	F5	2	..	39931b	67	2195	21.3	-1 1	6.14	7.14	Ko	6	..	37606i
18	3771	20.9	-51 14	9.8	9.2	Ao	3	..	39868b	68	2855	21.3	-17 30	7.07	7.85	G5	6	..	41239b
19	1120	20.9	-63 14	9.7	9.7	A	1	..	40096b	69	2708	21.3	-19 56	9.2	9.6	Ao	2	..	41239b
20	885	20.9	-70 53	9.4	9.4	Ao	2	..	22988b	70	6571	21.3	-27 13	9.7	9.9	Fo	1	..	13281b
21	402	20.9	-80 0	8.7	8.8	A2	4	..	20869b	71	7251	21.3	-31 49	9.2	9.3	G5	1	..	13047b
22	..	21.0	+47 3	..	..	G	1	..	4904m	72	5654	21.3	-36 35	10.0	10.1	Go	1	..	18436b
23	1866	21.0	+44 13	9.6	10.4	G5	1	..	4904m	73	5070	21.3	-41 49	8.4	8.9	F5	6	..	38418b
24	2193	21.0	-0 48	6.78	7.78	Ko	5	..	37606i	74	5263	21.3	-43 13	8.8	8.9	Ko	3	..	38418b
25	2632	21.0	-11 47	9.9	10.7	G5	1	..	21395b	75	5262	21.3	-43 32	7.0	7.8	Mb	4	0,6	35949b
26	2851	21.0	-14 6	8.6	9.4	G5	2	..	13154b	76	5460	21.3	-44 56	8.14	9.5	Mb	3	..	39931b
27	7181	21.0	-25 23	10.2	10.4	F8	1	..	13281b	77	3779	21.3	-51 26	9.8	9.5	A5	2	..	39868b
28	7033	21.0	-27 6	8.2	9.8	F8	2	..	13281b	78	1030	21.3	-64 36	9.1	9.7	Go	2	..	21452b
29	7238	21.0	-28 33	7.6	9.2	K2	4	..	13281b	79	1963	21.4	+41 38	7.42	7.76	F2	6	3,5	37459i
30	5855	21.0	-34 13	9.4	9.6	A2	2	..	18436b	80	2195	21.4	+18 28	8.5	9.3	G5	3	5,2	37608i
31	5185	21.0	-40 6	10.7	10.3	A	1	..	39925b	81	2049	21.4	+14 56	7.76	7.84	A3	5	0,5	38283i
32	4905	21.0	-47 10	10.0	10.1	Ao	1	..	39931b	82	2622	21.4	-4 17	8.2	9.4	K5	2	..	19392b
33	4377	21.0	-49 22	9.8	9.6	G5	1	..	39931b	83	2903	21.4	-20 19	7.27	7.9	A3	7	..	41239b
34	2144	21.0	-55 20	8.3	8.3	B9	5	..	39868b	84	7250	21.4	-28 54	9.4	8.6	Fo	4	..	13281b
35	1121	21.0	-63 14	9.9	9.9	A	1	..	40096b	85	6054	21.4	-33 39	9.8	9.0	Ao	3	..	18436b
36	1028	21.0	-65 5	8.7	9.1	F5	2	..	40221b	86	5071	21.4	-41 30	10.4	10.3	Ao	2	..	38418b
37	1011	21.0	-66 41	10.1	10.2	A2	2	..	21452b	87	5073	21.4	-42 5	10.4	10.0	Ao	3	..	38418b
38	1915	21.1	+43 12	7.37	7.65	Fo	7	0,7-	38336i	88	4913	21.4	-48 3	8.4	8.7	A5	4	..	39931b
39	2011	21.1	+42 3	7.8	8.1	F2	4	6,3 R	37459i	89	2320	21.4	-52 34	9.0	8.6	A2	4	..	39868b
40	2084	21.1	+17 8	7.9	9.3	Ma	1	..	38283i	90	2319	21.4	-52 43	8.4	9.8	K5	1	..	39868b
41	2046	21.1	+15 34	9.2	9.8	G	1	..	38283i	91	2023	21.4	-57 58	9.5	9.5	Ao	4	..	38748b
42	8060	21.1	-24 54	6.91	7.3	B9	7	..	13323b	92	933	21.4	-68 18	9.9	10.0	A2	1	..	21452b
43	5748	21.1	-37 39	8.0	7.8	B9	7	..	18436b	93	934	21.4	-68 47	8.3	8.3	Ao	3	..	22988b
44	1411	21.1	-60 45	9.8	10.8	Ko	1	..	40096b	94	1903	21.5	+29 41	8.86	9.86	Ko	2	..	37741i
45	1106	21.1	-65 46	9.4	10.0	Go	3	..	21452b	95	2095	21.5	+14 44	7.06	8.13	K2	4	0,4	38283i
46	583	21.1	-74 52	8.1	8.7	Go	5	..	21453b	96	2197	21.5	-0 30	8.3	9.3	Ko	4	..	19340b
47	399	21.2	+74 24	8.1	9.1	Ko	5	..	37714i	97	2807	21.5	-7 11	9.0	10.0	Ko	1	..	22976b
48	2204	21.2	+2 57	8.1	8.5	F5	3	..	37606i	98	2806	21.5	-8 10	8.8	9.2	F5	3	..	22976b
49	2300	21.2	+1 3	8.9	10.1	K5	2	..	19340b	99	2635	21.5	-12 6	8.6	9.6	Ko	5	..	21395b
50	2851	21.2	-14 45	9.2	9.3	A2	3	..	13154b	100	2892	21.5	-13 3	8.6	9.0	F5	6	..	21395b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

81600

9^h 21^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	2794	21.5	-21 41	8.8	9.6	Ao	3	..	13323b	51	4922	21.8	-47 50	8.5	8.9	B9	5	..	39931b
2	6381	21.5	-32 19	9.1	9.0	F8	1	..	13047b	52	4677	21.8	-48 10	10.0	9.6	Ao	2	..	39931b
3	6383	21.5	-32 44	7.71	8.8	K5	3	..	18927b	53	2262	21.8	-54 40	9.2	9.5	F2	2	..	39868b
4	6055	21.5	-33 53	7.5	8.7	Ko	6	..	18436b	54	1513	21.8	-58 15	8.0	8.1	B3	7	..	38748b
5	5657	21.5	-36 50	9.0	9.6	F2	4	..	18436b	55	1012	21.8	-66 35	9.4	10.2	G5	2	..	21452b
6	5491	21.5	-39 47	8.7	9.1	A5	3	..	18436b	56	1884	21.9	+31 55	8.7	9.3	Go	2	..	37741i
7	5193	21.5	-40 14	10.0	9.4	Ao	3	..	18436b	57	2202	21.9	+2 5	9.2	10.2	Ko	2	..	19340b
8	5192	21.5	-40 29	8.5	8.8	Ao	5	..	18436b	58	2835	21.9	-9 40	9.0	9.8	G5	3	..	21395b
9	5194	21.5	-40 56	8.5	9.7	Go	3	..	39945b	59	2855	21.9	-14 4	7.8	8.6	G5	8	..	21395b
10	5464	21.5	-45 3	8.94	9.8	Ko	2	..	39931b	60	2795	21.9	-15 46	9.9	10.5	G	2	..	13154b
11	2148	21.5	-55 22	8.8	8.9	A2	2	..	39868b	61	2794	21.9	-16 1	9.2	10.0	G5	2	..	41239b
12	1412	21.5	-60 44	8.5	9.0	A3	3	..	38748b	62	7459	21.9	-29 36	7.6	7.5	A2	9	..	13281b
13	1265	21.5	-61 13	5.97	7.4	G5	..	5,8	56,126	63	5673	21.9	-35 32	7.9	8.2	A5	6	..	18436b
14	1841	21.6	+49 20	8.1	9.1	Ko	3	..	38240i	64	5198	21.9	-40 41	9.6	9.7	B9	2	..	39945b
15	2189	21.6	+4 45	9.06	9.84	G5	5	..	19340b	65	5139	21.9	-45 24	9.4	9.3	A3	3	..	39931b
16	2302	21.6	+1 32	8.9	9.5	Go	4	..	19340b	66	3790	21.9	-51 32	9.2	9.2	F8	2	..	39868b
17	2519	21.6	+0 5	9.6	10.0	F5	4	..	19340b	67	3791	21.9	-51 59	9.0	8.6	A2	4	..	39868b
18	2636	21.6	-12 3	9.2	10.2	K	2	..	21395b	68	1013	21.9	-67 3	8.5	9.5	Ko	4	..	21452b
19	2710	21.6	-19 39	8.2	9.6	Ko	3	..	41239b	69	2099	22.0	+23 47	8.3	9.7	Ma	2	..	38646i
20	5658	21.6	-36 22	8.8	9.6	F8	3	..	18436b	70	2177	22.0	+6 41	6.71	7.13	F5	7	..	9462b
21	5169	21.6	-46 30	7.5	8.3	Ko	6	..	39931b	71	2203	22.0	+2 36	9.9	10.7	G5	1	..	19340b
22	4917	21.6	-47 54	9.0	10.0	Ko	1	..	39931b	72	2912	22.0	-7 5	9.2	10.2	Ko	1	..	22976b
23	4919	21.6	-48 6	9.4	9.3	A2	2	..	39931b	73	2796	22.0	-16 1	7.6	8.4	G5	6	..	41239b
24	4384	21.6	-49 51	8.0	8.9	Ko	3	0,3	39868b	74	2904	22.0	-20 18	8.38	9.3	Ko	3	..	41239b
25	585	21.6	-74 55	9.2	9.8	Go	2	..	21453b	75	2797	22.0	-21 29	8.7	9.0	Ao	3	..	13323b
26	1507	21.7	+46 23	9.3	9.8	F8	3	..	4904m	76	7053	22.0	-26 49	9.9	10.1	F2	2	..	13281b
27	2638	21.7	-11 34	10.4	10.7	F2	3	..	21395b	77	7463	22.0	-29 15	8.9	9.0	Ko	2	..	13281b
28	2893	21.7	-12 22	8.0	9.0	Ko	5	..	21395b	78	6066	22.0	-33 36	10.0	9.3	F5	2	..	18436b
29	2792	21.7	-15 35	9.5	10.6	K2	1	..	13154b	79	5662	22.0	-36 20	8.7	9.6	Ko	3	..	18436b
30	7551	21.7	-30 56	7.6	8.1	Ao	6	..	13047b	80	5140	22.0	-45 9	9.64	9.3	Ao	3	..	39931b
31	7261	21.7	-31 44	9.5	9.3	F5	2	..	13047b	81	3795	22.0	-51 12	10.0	9.2	B9	2	..	39868b
32	7262	21.7	-32 0	8.1	9.0	Ko	2	..	13047b	82	3793	22.0	-51 14	8.9	9.5	Ma	1	..	39868b
33	5755	21.7	-37 10	9.0	9.0	Ao	3	..	18436b	83	3794	22.0	-51 58	10.0	9.2	A2	1	..	39868b
34	5494	21.7	-39 53	7.32	8.2	K2	3	..	18436b	84	2268	22.0	-54 38	9.8	9.8	A	1	..	39868b
35	5266	21.7	-42 23	9.8	10.0	A2	2	..	38418b	85	1266	22.0	-61 24	9.1	9.1	Ao	2	..	40096b
36	4920	21.7	-47 37	10.5	9.3	Ko	2	..	39931b	86	1192	22.1	+60 17	8.6	9.2	Go	3	..	38224i
37	3787	21.7	-51 24	9.4	9.5	G5	1	..	39868b	87	1675	22.1	+47 4	10.0	10.8	G5	2	..	4904m
38	2330	21.7	-52 58	9.1	8.9	B8	3	..	39868b	88	1509	22.1	+46 2	5.56	6.34	G5	8	0,10	38240i
39	594	21.7	-73 6	7.6	8.4	G5	3	..	22988b	89	2101	22.1	+23 25	8.1	9.1	Ko	2	..	38646i
40	577	21.7	-75 16	9.03	9.3	F5	4	..	21453b	90	2039	22.1	+11 19	8.3	9.3	Ko	2	..	38283i
41	2190	21.8	+3 57	8.7	9.8	K2	4	..	19340b	91	2305	22.1	+1 44	8.7	9.7	Ko	3	..	19340b
42	2207	21.8	+2 55	9.2	9.6	F5	2	..	19340b	92	2797	22.1	-15 51	9.7	10.8	K2	1	..	13154b
43	2260	21.8	-1 19	8.5	9.5	Ko	3	..	19392b	93	2857	22.1	-18 10	8.8	9.8	Ko	2	0,1	13154b
44	2261	21.8	-2 5	8.47	9.47	Ko	1	..	21505b	94	8373	22.1	-23 44	6.82	6.7	Ao	8	..	13323b
45	2885	21.8	-2 48	8.7	9.5	G5	1	..	21505b	95	7264	22.1	-29 0	8.3	8.6	Fo	4	..	13281b
46	2682	21.8	-3 58	9.7	10.1	F5	2	..	19392b	96	1514	22.1	-58 45	9.1	9.1	B9	4	..	38748b
47	2852	21.8	-13 51	9.0	9.4	F5	4	..	21395b	97	1416	22.1	-60 29	9.0	10.1	G5	2	..	40096b
48	8076	21.8	-24 40	8.36	8.9	F5	2	..	13323b	98	1268	22.1	-61 55	9.1	10.1	Ko	2	..	40096b
49	5671	21.8	-35 54	8.4	9.6	K2	2	..	18436b	99	1267	22.1	-62 1	9.7	9.7	A	2	..	40096b
50	5170	21.8	-46 32	9.1	9.2	G5	2	..	39931b	100	1122	22.1	-63 17	8.3	8.9	Go	3	..	40096b

THE HENRY DRAPER CATALOGUE.

81700

9^h 22^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	° /									m.	° /						
1	1077	22.1	-67 28	9.2	9.2	Ao	5	..	21452b	51	2800	22.4	-21 33	8.6	9.3	G5	2	..	13323b
2	1386	22.2	+56 41	6.94	7.28	F2	6	..	37705i	52	7063	22.4	-26 37	9.5	11.5	K	1	..	13281b
3	1644	22.2	+50 28	7.8	9.2	Ma	3	..	38240i	53	7271	22.4	-28 21	6.02	6.5	B8	6	..	43038b
4	1510	22.2	+46 2	8.1	8.6	F8	4	..	4904m	54	7268	22.4	-28 43	9.4	10.1	A5	3	..	13281b
5	2089	22.2	+17 19	8.7	9.3	Go	2	..	37607i	55	6070	22.4	-33 27	6.88	7.9	G5	7	..	18436b
6	1964	22.2	+16 10	8.7	9.5	G5	2	..	38283i	56	5878	22.4	-34 8	9.0	9.6	A5	3	..	18436b
7	2091	22.2	+12 49	7.7	8.7	Ko	3	0.4	38283i	57	5879	22.4	-34 44	8.7	9.3	Ao	3	..	18436b
8	2039	22.2	+11 50	8.7	9.2	F8	3	0.3	38283i	58	2391	22.4	-53 44	9.1	8.9	Ao	2	..	39868b
9	2627	22.2	-4 20	8.2	8.2	Ao	5	..	22976b	59	459	22.5	+72 34	7.54	8.32	G5	5	..	37714i
10	2798	22.2	-16 4	8.6	9.0	F5	5	..	41239b	60	1646	22.5	+50 48	10.0	11.0	Ko	1	..	38650i
11	2679	22.2	-18 29	9.5	9.6	A2	2	R	41239b	61	1919	22.5	+43 18	9.5	10.7	K5	1	..	4904m
12	2678	22.2	-18 43	6.83	6.89	A2	8	..	41239b	62	2097	22.5	+14 11	8.1	8.9	G5	4	..	38283i
13	2905	22.2	-20 13	8.88	9.6	G5	1	..	41239b	63	2520	22.5	+0 5	9.6	10.6	Ko	1	..	19340b
14	7060	22.2	-26 8	8.7	9.5	F5	4	..	13281b	64	2685	22.5	-3 22	7.70	8.26	Go	3	..	21505b
15	7271	22.2	-31 11	9.2	9.3	Ao	1	..	13047b	65	2628	22.5	-5 0	8.5	8.5	Ao	4	..	22976b
16	5676	22.2	-35 46	9.8	10.2	Ao	1	..	18436b	66	2858	22.5	-13 29	7.8	8.9	K2	7	..	21395b
17	5274	22.2	-43 33	10.0	8.9	F5	1	..	39945b	67	2787	22.5	-16 14	9.2	10.2	Ko	2	..	13154b
18	5173	22.2	-46 32	10.0	9.8	Fo	1	..	39931b	68	2277	22.5	-54 34	7.9	8.4	Ko	4	..	39868b
19	4390	22.2	-49 8	8.8	8.9	A2	3	..	39931b	69	2154	22.5	-56 55	8.2	7.4	B8	5	..	38748b
20	2388	22.2	-54 2	6.8	8.0	K2	7	..	39868b	70	1422	22.5	-60 54	8.5	8.7	B9	6	..	40096b
21	887	22.2	-70 23	9.5	9.5	Ao	3	..	40074b	71	822	22.5	-71 22	8.2	8.3	A3	5	..	22988b
22	310	22.3	+78 9	8.3	9.1	G5	5	..	37714i	72	1192	22.6	+58 34	8.13	8.41	Fo	5	..	37705i
23	2212	22.3	+40 25	8.0	8.1	A2	3	..	37459i	73	1395	22.6	+52 0	9.1	9.9	G5	1	..	38240i
24	1948	22.3	+26 21	9.5	10.5	Ko	1	..	38646i	74	1921	22.6	+43 39	8.2	8.5	F2	3	0.3 R	37459i
25	2102	22.3	+23 42	8.1	8.5	F5	4	..	38646i	75	2250	22.6	+39 4	8.7	9.5	G5	3	..	37459i
26	2323	22.3	+20 14	9.1	9.4	Fo	4	..	37608i	76	2225	22.6	+8 43	8.5	8.6	A2	2	..	38283i
27	2810	22.3	-7 37	9.5	9.5	Ao	1	..	22976b	77	2306	22.6	+1 22	9.2	10.0	G5	4	..	19340b
28	2678	22.3	-8 47	6.45	6.45	Ao	10	..	21395b	78	5671	22.6	-36 24	9.6	9.6	B9	3	..	18436b
29	2896	22.3	-12 29	7.69	7.77	A3	8	..	21395b	79	5776	22.6	-37 47	9.4	9.9	F2	2	..	18436b
30	2857	22.3	-13 55	9.2	10.0	G5	1	..	21395b	80	5507	22.6	-40 4	6.39	6.6	A3	6	0. R	35949b
31	2799	22.3	-15 35	7.15	8.22	K2	5	..	41239b	81	5208	22.6	-40 54	9.4	10.0	Go	1	..	39945b
32	7062	22.3	-26 27	9.7	10.4	F8	1	..	13281b	82	5091	22.6	-41 49	7.0	7.2	Ao	4	..	35949b
33	6592	22.3	-27 56	8.5	8.2	A2	7	..	13281b	83	4935	22.6	-47 19	7.6	8.7	Ko	4	..	39931b
34	2346	22.3	-52 48	7.0	7.4	F8	7	0.2	39868b	84	2396	22.6	-53 12	9.1	8.9	Fo	4	..	39868b
35	2275	22.3	-54 30	8.4	8.0	B8	6	..	39868b	85	1031	22.6	-64 36	9.5	9.5	Ao	2	..	21452b
36	1381	22.3	-59 8	9.1	10.2	K2	2	..	38748b	86	938	22.6	-68 32	9.5	10.3	G5	2	..	21452b
37	1014	22.3	-66 15	8.8	8.8	B9	5	..	21452b	87	572	22.7	+67 58	7.22	7.28	A2	8	..	37517i
38	937	22.3	-68 12	8.0	9.1	K2	6	..	21452b	88	592	22.7	+67 29	8.3	9.3	Ko	3	..	37517i
39	596	22.3	-73 29	8.7	9.9	K5	2	..	21453b	89	618	22.7	+66 7	9.3	10.3	K	1	..	37517i
40	1676	22.4	+47 38	8.5	9.3	G5	2	..	38240i	90	1388	22.7	+56 11	6.46	6.80	F2	7	..	37705i
41	1963	22.4	+36 35	8.8	10.2	Mb	1	..	37345i	91	1307	22.7	+54 34	8.7	9.9	K5	2	..	38650i
42	1886	22.4	+31 48	9.2	9.8	Go	1	..	37741i	92	1511	22.7	+46 21	10.3	11.3	Ko	1	..	4904m
43	2090	22.4	+17 25	8.7	9.2	F8	3	..	37608i	93	..	22.7	+45 53	..	..	K2	1	..	4904m
44	2130	22.4	+7 47	8.3	9.3	Ko	3	..	9462b	94	2002	22.7	+10 39	8.1	9.2	K2	2	..	38283i
45	2684	22.4	-4 8	8.4	8.5	A2	4	..	22976b	95	2208	22.7	+3 16	8.5	9.3	G5	6	..	19340b
46	2897	22.4	-12 15	9.2	9.3	A3	4	..	21395b	96	2307	22.7	+1 46	9.6	10.6	Ko	1	..	19340b
47	2801	22.4	-16 4	9.2	9.6	F5	2	..	41239b	97	2680	22.7	-8 14	2.16	3.23	K2	..	0.6 R	2517c
48	2786	22.4	-16 50	8.8	9.6	G5	3	..	41239b	98	2899	22.7	-12 16	9.5	9.6	A2	2	..	21395b
49	2859	22.4	-17 46	9.2	10.3	K2	1	..	13154b	99	2802	22.7	-21 54	4.94	6.5	Ko	..	0. R	28,203
50	2715	22.4	-19 15	9.2	9.6	F5	2	..	13154b	100	5684	22.7	-35 34	8.7	8.8	B9	5	..	18436b

81800

9^h 22^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5092	22.7	-41 32	9.1	10.3	K2	1	..	39945b	51	2160	23.0	-56 49	8.3	9.5	K5	2	..	38748b
2	5150	22.7	-45 41	7.7	8.3	A2	7	..	39931b	52	1079	23.0	-67 20	9.6	9.7	A2	3	..	21452b
3	2401	22.7	-53 24	7.2	7.7	F5	7	..	39868b	53	1923	23.1	+43 28	9.0	9.6	Go	3	..	4904m
4	2280	22.7	-54 51	9.1	8.9	B8	2	..	39868b	54	1968	23.1	+40 53	8.50	9.50	Ko	3	..	37459i
5	1424	22.7	-60 36	9.1	9.3	Ao	3	..	40096b	55	1951	23.1	+26 39	8.3	9.3	Ko	2	..	37741i
6	1032	22.7	-64 16	7.5	7.6	A2	8	..	40221b	56	2094	23.1	+13 5	7.58	8.14	Go	4	..	37610i
7	1073	22.8	+61 57	9.3	9.7	F5	1	..	37517i	57	2043	23.1	+12 3	8.5	9.3	G5	2	..	37610i
8	2629	22.8	- 5 4	8.95	9.37	F5	3	..	22976b	58	2188	23.1	+ 9 30	5.52	6.08	Go	9	R	37610i
9	2802	22.8	- 5 38	5.44	6.00	Go	10	..	22976b	59	2200	23.1	- 0 36	9.6	10.1	F8	2	..	19340b
10	2681	22.8	-18 43	9.2	9.7	F8	2	..	41239b	60	2632	23.1	- 5 2	8.85	9.35	F8	3	..	22976b
11	5283	22.8	-43 8	9.8	9.5	Go	2	..	39945b	61	2838	23.1	-11 8	8.7	8.8	A2	4	..	21395b
12	5151	22.8	-45 58	8.8	9.0	F5	4	..	39931b	62	2644	23.1	-11 57	9.9	10.4	F8	1	..	21395b
13	3809	22.8	-51 31	8.8	8.4	A2	6	..	39868b	63	2860	23.1	-14 26	7.46	7.96	F8	8	..	21395b
14	2161	22.8	-55 24	9.5	9.5	Ao	2	..	39868b	64	2862	23.1	-17 36	9.0	9.6	Go	3	2,3	13154b
15	1384	22.8	-59 27	9.4	9.4	B9	3	..	38748b	65	7078	23.1	-26 41	9.4	10.7	Ko	1	..	13281b
16	1078	22.8	-67 45	9.5	9.5	Ao	3	..	21452b	66	6603	23.1	-27 57	8.2	8.9	F5	5	..	13281b
17	302	22.9	+81 46	4.58	5.65	K2	..	2,10	1695c	67	5889	23.1	-34 59	9.64	9.6	Ao	2	..	18436b
18	460	22.9	+72 5	9.5	10.1	G	2	..	37706i	68	4148	23.1	-51 3	9.2	9.5	Fo	3	..	39868b
19	1512	22.9	+46 13	9.6	10.8	K5	1	..	4904m	69	3817	23.1	-51 22	10.2	9.2	Ao	2	..	39868b
20	1966	22.9	+41 33	8.6	9.6	Ko	2	..	37459i	70	1034	23.1	-64 50	6.84	6.8	Fo	9	..	40221b
21	2055	22.9	+15 36	8.5	9.1	Go	3	..	38283i	71	1513	23.2	+46 31	9.5	10.5	K	1	..	4904m
22	2917	22.9	- 6 56	9.0	9.1	A3	5	..	22976b	72	2096	23.2	+12 49	6.92	7.70	G5	5	..	37610i
23	2907	22.9	-20 21	8.48	9.9	K5	2	..	41239b	73	2226	23.2	+ 8 37	5.88	6.88	Ko	8	..	37610i
24	5288	22.9	-42 38	9.1	8.9	B9	6	..	39945b	74	2841	23.2	- 9 35	7.18	8.18	Ko	7	..	21395b
25	5284	22.9	-43 48	7.5	7.7	Ao	8	..	39945b	75	6407	23.2	-32 27	8.7	8.4	Ao	4	..	13047b
26	4942	22.9	-47 7	10.0	9.8	A2	1	..	39931b	76	5680	23.2	-36 52	10.4	10.4	A5	2	..	18436b
27	2354	22.9	-52 25	9.4	9.5	A2	2	..	39868b	77	5517	23.2	-39 56	9.3	8.8	B9	4	..	18436b
28	2404	22.9	-53 10	9.3	9.3	B9	2	..	39868b	78	4402	23.2	-49 52	8.9	8.4	Ao	4	..	39931b
29	1425	22.9	-60 21	9.5	10.1	Go	2	..	40096b	79	1515	23.2	-58 46	9.5	9.9	F5	2	..	38748b
30	1271	22.9	-61 31	6.00	6.4	A2	..	0,10	56,126	80	1234	23.2	-62 25	10.1	10.1	A	1	..	40096b
31	578	22.9	-75 39	10.1	10.1	Ao	2	..	21453b	81	1080	23.2	-67 29	7.9	8.3	F5	7	..	21452b
32	2089	23.0	+24 14	9.2	10.0	G5	1	..	38646i	82	594	23.3	+67 19	8.02	8.30	Fo	5	..	37517i
33	2132	23.0	+ 6 56	9.2	9.3	A2	3	..	9462b	83	1514	23.3	+46 35	9.0	10.0	Ko	4	0,2	4904m
34	2180	23.0	+ 6 20	7.9	8.9	Ko	5	5,4	9462b	84	2813	23.3	- 7 17	7.06	8.41	Ma	6	..	22976b
35	2199	23.0	- 0 57	9.9	9.9	Ao	2	..	19340b	85	7209	23.3	-25 55	8.5	8.9	F8	5	..	13281b
36	2803	23.0	- 5 14	8.60	9.67	K2	4	..	22976b	86	7081	23.3	-26 40	8.1	9.5	Ko	5	..	13281b
37	2840	23.0	- 9 22	8.0	9.0	Ko	6	..	21395b	87	7481	23.3	-29 27	8.9	9.5	F8	3	..	13281b
38	2643	23.0	-11 43	8.7	9.7	Ko	3	..	21395b	88	7575	23.3	-31 4	7.7	9.5	K5	1	..	13047b
39	8096	23.0	-24 58	9.55	10.4	G5	1	..	13281b	89	5682	23.3	-36 26	7.69	8.2	Ao	7	..	18436b
40	7205	23.0	-25 20	8.9	10.4	F5	1	..	13281b	90	4951	23.3	-47 30	10.2	10.1	G5	1	..	39931b
41	6077	23.0	-33 21	7.13	7.7	Ko	7	..	18436b	91	2290	23.3	-54 26	7.2	7.2	B3	7	5,2	39868b
42	6080	23.0	-33 41	8.4	8.3	Ao	6	..	18436b	92	2045	23.3	-57 16	9.1	8.9	Ao	3	..	38748b
43	5513	23.0	-39 28	9.4	9.4	Ao	3	..	18436b	93	1389	23.3	-59 18	7.4	9.0	Ko	5	..	38748b
44	5152	23.0	-45 41	8.4	8.3	A2	5	..	39931b	94	1015	23.3	-66 22	9.7	9.7	Ao	3	..	21452b
45	4947	23.0	-48 1	9.0	9.8	Ko	1	..	39931b	95	940	23.3	-69 1	9.2	10.2	Ko	2	..	21452b
46	4700	23.0	-48 36	9.2	8.9	Ao	3	..	39931b	96	1056	23.3	-69 38	6.58	8.2	Ko	5	..	22988b
47	4147	23.0	-50 44	8.0	8.3	B8	6	..	39868b	97	441	23.3	-78 39	9.6	10.6	Ko	1	..	21453b
48	2360	23.0	-52 56	5.22	5.6	B5	..	3,9R	56,126	98	1389	23.4	+56 22	9.0	9.5	F8	3	..	38224i
49	2406	23.0	-53 56	8.5	8.6	A2	4	..	39868b	99	2218	23.4	+19 42	8.15	8.57	F5	4	..	37608i
50	2163	23.0	-55 39	7.0	7.6	B8	7	..	39868b	100	2097	23.4	+13 1	7.72	8.50	G5	2	..	37610i

THE HENRY DRAPER CATALOGUE.

81900

9^h 23^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2814	23.4	- 7 40	8.0	8.0	Ao	5	..	21395b	51	2175	23.7	-55 31	8.4	9.2	Ko	3	..	39868b
2	2843	23.4	- 9 33	6.87	7.87	Ko	8	..	21395b	52	1124	23.7	-63 18	8.1	8.2	A ₃	5	..	40221b
3	2807	23.4	-22 6	7.36	8.0	Ko	5	..	13323b	53	1238	23.8	+59 11	7.66	8.73	K ₂	3	..	37705i
4	8402	23.4	-23 14	7.9	8.7	Ko	3	..	13323b	54	2036	23.8	+21 20	7.9	8.7	G ₅	3	..	37608i
5	7293	23.4	-28 28	8.2	10.4	K ₂	1	..	13281b	55	2325	23.8	+20 34	8.9	9.7	G ₅	2	..	37607i
6	5698	23.4	-35 46	8.7	9.0	F8	4	..	18436b	56	2845	23.8	- 9 50	7.71	7.77	A ₂	8	..	21395b
7	3824	23.4	-51 20	8.5	8.6	B ₉	7	..	39868b	57	2809	23.8	-16 6	8.0	8.4	F ₅	6	..	41239b
8	2365	23.4	-52 56	8.9	9.8	K ₂	1	..	39868b	58	4955	23.8	-47 52	8.2	8.0	Fo	5	..	39931b
9	1427	23.4	-61 3	8.5	8.8	G ₅	2	..	40221b	59	4160	23.8	-50 10	9.60	9.3	A ₂	2	..	39931b
10	1057	23.4	-69 58	7.90	7.4	B ₉	6	..	22988b	60	405	23.8	-79 12	9.4	10.2	G ₅	3	..	21453b
11	1193	23.5	+60 20	9.3	10.4	K ₂	1	..	38224i	61	406	23.8	-79 57	7.62	8.7	Ko	5	2,4	20869b
12	1677	23.5	+47 16	9.3	10.1	G ₅	1	..	38336i	62	1776	23.9	+48 18	8.1	8.5	F ₅	3	..	38240i
13	1515	23.5	+45 54	9.3	9.8	F8	3	..	4904m	63	2252	23.9	+39 21	8.5	9.5	Ko	3	..	37459b
14	2092	23.5	+17 32	8.5	9.5	Ko	3	..	37607i	64	1998	23.9	+34 0	7.8	8.8	Ko	4	..	37741i
15	2686	23.5	- 8 46	8.0	9.0	Ko	6	..	21395b	65	1974	23.9	+15 49	8.6	9.2	G	1	..	38283i
16	2844	23.5	- 9 54	8.11	9.18	K ₂	5	..	21395b	66	2311	23.9	+ 1 30	8.5	8.5	Ao	7	..	19340b
17	2807	23.5	-16 5	9.1	9.7	Go	3	5,1	13154b	67	2843	23.9	-10 32	9.2	9.2	Ao	2	..	21395b
18	7085	23.5	-27 2	8.5	10.4	Ko	2	..	13281b	68	2863	23.9	-14 16	9.5	10.3	G ₅	2	..	21395b
19	5895	23.5	-34 34	6.48	7.0	A ₃	9	..	18436b	69	2687	23.9	-19 9	8.6	9.0	Go	4	..	41239b
20	5102	23.5	-41 13	9.3	9.7	F8	2	..	39945b	70	5106	23.9	-41 10	8.7	10.0	K ₅	2	..	39945b
21	4707	23.5	-48 15	6.98	7.7	B ₉	6	0,8	46200b	71	5302	23.9	-43 12	9.1	8.4	A ₃	4	..	39945b
22	2368	23.5	-53 4	7.2	8.7	Mb	2	..	39868b	72	1428	23.9	-60 22	9.4	10.6	K ₅	1	..	40096b
23	2420	23.5	-53 26	9.0	10.1	K ₅	1	..	39868b	73	161	23.9	-87 6	10.1	10.5	F ₅	2	..	22238b
24	343	23.5	-80 24	9.6	10.6	Ko	2	..	21453b	74	212	24.0	+84 17	8.7	9.0	Fo	4	..	37546i
25	2804	23.6	- 5 52	9.7	10.5	G ₅	2	..	22976b	75	1678	24.0	+46 51	9.3	9.8	F8	3	..	4904m
26	2687	23.6	- 8 59	9.1	10.1	Ko	3	..	21395b	76	1870	24.0	+33 45	8.1	8.1	Ao	4	..	37741i
27	2645	23.6	-11 42	10.1	10.5	F ₅	1	..	21395b	77	2207	24.0	+18 4	7.48	8.48	Ko	6	0,4-	37608i
28	2796	23.6	-16 23	9.1	10.1	Ko	2	..	13154b	78	2181	24.0	+ 5 29	8.9	9.4	F8	2	..	19340b
29	7218	23.6	-25 22	9.9	10.4	Go	1	..	13281b	79	2212	24.0	+ 3 33	9.4	10.4	Ko	1	..	19340b
30	7215	23.6	-26 0	10.2	11.0	K	1	..	13281b	80	2201	24.0	- 0 49	6.29	6.43	A ₅	7	..	21505b
31	5191	23.6	-47 6	9.8	10.1	Go	1	..	39931b	81	2819	24.0	- 8 2	8.0	9.0	Ko	4	E	21395b
32	4953	23.6	-48 1	9.4	9.5	F8	2	..	39931b	82	8411	24.0	-23 59	8.7	8.4	F ₅	2	..	13323b
33	1082	23.6	-67 55	8.1	9.1	Ko	7	..	21452b	83	7224	24.0	-25 51	8.5	8.0	A ₂	4	..	13323b
34	890	23.6	-70 39	9.6	9.7	A ₂	2	..	40074b	84	7584	24.0	-30 41	9.1	10.1	Ko	2	..	13281b
35	825	23.6	-71 19	8.7	8.8	A ₃	3	..	22988b	85	5905	24.0	-34 28	7.09	7.4	B ₉	8	..	18436b
36	564	23.7	+70 9	8.7	9.1	F ₅	4	..	37706i	86	5224	24.0	-40 45	8.7	9.7	K ₂	2	..	39945b
37	845	23.7	+63 30	3.75	4.03	Fo	..	R	1844c	87	5301	24.0	-42 8	7.3	7.8	A ₂	4	..	35949b
38	1925	23.7	+43 27	8.6	9.1	F8	3	..	4904m	88	5166	24.0	-45 34	9.8	9.3	A ₂	2	..	39931b
39	2016	23.7	+42 42	7.81	8.23	F ₅	5	3,5	38336i	89	2302	24.0	-54 56	8.5	8.6	A ₂	5	..	39868b
40	1765	23.7	+27 49	8.1	8.1	Ao	5	..	37741i	90	1394	24.0	-59 8	6.6	6.6	B ₉	9	..	38748b
41	2522	23.7	+ 0 13	8.9	9.9	Ko	5	..	19340b	91	1429	24.0	-60 14	9.46	9.4	F ₅	2	..	40096b
42	5688	23.7	-36 54	9.4	9.9	Fo	2	..	18436b	92	1431	24.0	-60 56	8.9	9.3	F8	2	..	40221b
43	5592	23.7	-39 1	9.4	10.0	A ₂	2	..	18436b	93	1107	24.0	-65 39	9.6	10.2	Go	2	..	40096b
44	5296	23.7	-42 48	10.0	10.2	A ₅	1	..	39945b	94	1517	24.1	+46 30	9.0	9.5	F8	4	..	4904m
45	4954	23.7	-47 18	9.4	10.1	K ₅	1	..	39931b	95	1726	24.1	+45 12	7.12	7.26	A ₅	7	3,9	38336i
46	4712	23.7	-48 24	8.0	8.0	B8	6	2,4	39931b	96	1889	24.1	+32 28	7.80	8.36	Go	4	..	37741i
47	3832	23.7	-51 21	9.4	8.7	A ₂	4	..	39868b	97	2901	24.1	- 2 19	4.78	5.20	F ₅	..	0,R	56,86
48	3830	23.7	-52 1	8.5	8.3	B ₉	5	..	39868b	98	2811	24.1	-15 46	9.2	10.4	K ₅	1	..	41239b
49	2423	23.7	-53 55	7.1	7.4	G ₅	8	..	39868b	99	2868	24.1	-17 57	8.4	8.4	Ao	6	..	41239b
50	2294	23.7	-54 21	8.4	8.6	Ao	3	..	39868b	100	2912	24.1	-20 22	8.0	7.9	B ₉	6	..	41239b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

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9^h 24^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6622	24.1	-27 32	8.9	9.5	A5	3	..	13281b	51	409	24.4	-79 19	10.6	10.6	A	1	..	21453b
2	5602	24.1	-38 48	10.4	10.2	Ao	2	..	18436b	52	1339	24.5	+55 42	8.01	8.07	A2	4	E	37705i
3	2433	24.1	-53 32	8.4	7.8	B8	5	..	39868b	53	2098	24.5	+13 48	8.3	9.3	Ko	2	..	37610i
4	2429	24.1	-53 52	8.6	9.5	Ko	3	..	39868b	54	2183	24.5	+4 59	9.2	9.8	Go	2	..	19340b
5	1430	24.1	-61 3	9.4	10.6	K5	1	..	40096b	55	2215	24.5	+3 36	9.9	10.2	F2	3	..	19340b
6	1060	24.1	-69 12	8.5	9.7	K5	1	..	22988b	56	2216	24.5	+3 20	9.2	10.0	G5	4	..	19340b
7	1059	24.1	-69 58	9.00	9.1	A3	3	..	22988b	57	2905	24.5	-2 28	9.0	10.0	Ko	1	..	21505b
8	467	24.2	+73 27	8.2	9.0	G5	3	..	37714i	58	2866	24.5	-13 18	7.26	8.44	K5	7	..	21395b
9	1727	24.2	+45 28	9.3	9.4	A2	4	..	4904m	59	2800	24.5	-16 37	9.1	9.9	G5	2	..	13154b
10	1992	24.2	+31 45	7.60	7.55	B8	6	..	37741i	60	2801	24.5	-16 50	9.0	10.0	Ko	3	5,2	13154b
11	1872	24.2	+30 28	9.5	9.5	A	1	..	37741i	61	2872	24.5	-17 13	9.5	10.1	Go	2	5,1	13154b
12	1906	24.2	+29 9	8.0	9.0	Ko	3	..	37741i	62	8122	24.5	-24 36	8.5	10.4	Ma	2	..	13281b
13	1761	24.2	+27 9	10.2	11.2	Ko	1	..	38646i	63	7233	24.5	-25 47	9.9	10.1	Fo	2	..	13281b
14	2905	24.2	-13 8	8.2	9.6	Ma	5	..	21395b	64	7101	24.5	-26 50	8.9	10.1	Ao	2	..	13281b
15	2812	24.2	-15 23	8.6	8.9	Fo	5	..	41239b	65	5716	24.5	-35 10	7.94	8.4	F5	6	..	18436b
16	2869	24.2	-17 35	9.0	9.4	F5	2	..	41239b	66	5533	24.5	-39 39	8.4	8.5	B9	7	..	18436b
17	8115	24.2	-24 59	7.13	7.5	A3	7	..	13323b	67	5311	24.5	-42 27	10.2	10.2	A5	1	..	39945b
18	7226	24.2	-25 55	8.3	7.8	A2	6	..	13323b	68	1037	24.5	-64 29	6.36	6.1	A3	10	..	40221b
19	5228	24.2	-40 49	9.3	9.7	G5	3	..	39945b	69	1873	24.6	+30 0	8.8	9.3	F8	2	..	37741i
20	5198	24.2	-46 14	9.1	9.2	Ao	4	..	39931b	70	2185	24.6	+5 41	8.7	8.8	A2	3	..	19340b
21	2379	24.2	-52 59	8.5	9.5	K5	1	..	39868b	71	2211	24.6	+2 46	8.9	9.0	A3	2	..	19340b
22	1524	24.2	-58 19	8.5	9.9	K2	2	..	38748b	72	2906	24.6	-2 41	7.8	8.2	F5	4	R	21505b
23	1523	24.2	-58 34	9.1	9.1	Ao	3	..	38748b	73	2906	24.6	-2 41	7.8	8.2	A3	4	R	21505b
24	1432	24.2	-60 30	9.3	10.5	K5	1	..	40096b	74	2693	24.6	-3 48	6.41	7.19	G5	7	..	21505b
25	216	24.2	-84 12	7.85	9.2	K2	4	..	22238b	75	2923	24.6	-7 4	8.2	9.3	K2	4	..	22976b
26	595	24.3	+67 9	8.7	9.7	Ko	1	..	38654b	76	2873	24.6	-17 24	8.8	8.8	Ao	4	..	41239b
27	846	24.3	+63 8	9.3	9.7	F5	2	..	37517i	77	2915	24.6	-20 19	5.96	7.7	K5	..	3,6	56,127
28	2105	24.3	+25 7	8.5	9.5	Ko	2	..	38646i	78	5913	24.6	-34 7	10.0	9.4	F5	2	..	18436b
29	2182	24.3	+5 30	8.5	8.9	F5	4	..	19340b	79	5313	24.6	-42 38	9.6	9.7	Ao	2	..	39945b
30	2904	24.3	-2 44	6.87	6.87	Ao	6	..	21505b	80	5177	24.6	-45 19	9.6	9.5	Fo	2	..	39931b
31	7494	24.3	-29 20	9.2	9.5	F5	2	..	13281b	81	2386	24.6	-52 52	9.5	9.6	A5	3	..	39868b
32	5803	24.3	-37 46	7.6	8.2	Ao	6	..	18436b	82	2058	24.6	-57 39	7.4	7.6	Go	7	..	38748b
33	5110	24.3	-41 46	9.0	10.3	Ko	1	..	39945b	83	1397	24.6	-60 5	9.36	9.3	Ao	2	..	38748b
34	5306	24.3	-42 40	9.6	9.4	Fo	2	..	39945b	84	1126	24.6	-63 11	8.2	8.8	Go	3	R	15517b
35	4170	24.3	-50 17	9.8	9.3	Ao	2	..	39931b	85	1126	24.6	-63 11	8.2	8.8	Ao	3	R	15517b
36	2439	24.3	-54 1	9.3	10.3	Ko	1	..	39868b	86	1971	24.7	+41 4	8.9	9.5	G	1	..	37459i
37	2304	24.3	-54 48	9.0	8.9	Ao	3	..	39868b	87	1999	24.7	+34 5	5.98	6.98	Ko	8	..	37741i
38	1526	24.3	-58 56	9.6	9.7	A2	2	..	38748b	88	2098	24.7	+22 0	9.2	10.2	Ko	2	..	38046i
39	1083	24.3	-67 58	8.7	9.7	Ko	3	..	21452b	89	2212	24.7	+2 38	7.9	8.3	F5	6	..	19340b
40	1728	24.4	+45 7	7.72	9.07	Mb	5	0,3	4904m	90	2213	24.7	+1 52	9.6	10.4	G5	2	..	19340b
41	2214	24.4	+3 40	9.9	10.5	Go	2	..	19340b	91	2315	24.7	+1 41	10.6	11.2	Go	2	..	19340b
42	2313	24.4	+1 41	8.9	9.5	Go	5	..	19340b	92	2647	24.7	-12 3	9.5	9.9	F5	2	..	21395b
43	2268	24.4	-1 46	6.04	6.12	A3	..	2,8	56,86	93	2804	24.7	-17 4	7.05	7.11	A2	8	..	41239b
44	2870	24.4	-17 22	8.8	9.8	Ko	1	..	41239b	94	7237	24.7	-25 12	9.05	8.9	F2	3	..	13323b
45	2723	24.4	-20 0	8.0	8.1	Fo	4	..	41239b	95	7316	24.7	-28 36	9.2	10.1	F8	2	..	13281b
46	7229	24.4	-25 42	10.9	10.4	A2	1	..	13281b	96	7322	24.7	-31 14	9.7	9.5	Ao	2	..	13047b
47	5710	24.4	-35 44	9.0	9.6	F2	3	..	18436b	97	5711	24.7	-36 29	8.7	9.3	Ao	4	..	18436b
48	5806	24.4	-37 40	8.0	9.4	K2	2	..	18436b	98	5537	24.7	-39 20	9.4	9.7	Ao	2	..	18436b
49	5170	24.4	-45 36	10.5	9.8	A3	1	..	39931b	99	5233	24.7	-41 2	8.7	9.7	Ko	3	..	39945b
50	580	24.4	-75 32	9.0	9.6	Go	4	..	21453b	100	4723	24.7	-48 41	8.5	9.2	G5	3	..	39931b

THE HENRY DRAPER CATALOGUE.

82100

9^h 24^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2387	24.7	-53 4	7.2	7.4	Fo	..	2,3	56,127	51	5620	25.1	-38 34	7.42	8.9	Ko	5	..	18436b
2	1530	24.7	-58 29	7.9	7.9	B8	7	..	38748b	52	5319	25.1	-43 22	8.8	8.1	F8	5	..	39945b
3	1398	24.7	-59 48	8.2	8.5	Ao	5	..	38748b	53	4971	25.1	-48 2	8.8	8.6	Fo	3	..	39931b
4	2000	24.8	+34 38	7.67	8.85	K5	1	..	37345i	54	2065	25.1	-58 5	8.8	8.3	B9	6	..	38748b
5	2100	24.8	+22 16	6.81	6.89	A3	8	1,7	37608i	55	1532	25.1	-58 9	9.1	8.7	A	4	..	38748b
6	2182	24.8	+6 4	7.6	8.7	K2	6	..	9462b	56	1109	25.1	-65 50	9.1	10.2	K2	1	..	40074b
7	2525	24.8	-0 8	9.9	10.4	F8	2	..	19340b	57	2041	25.2	+21 28	8.7	9.0	Fo	3	..	37608i
8	5612	24.8	-38 40	9.8	9.4	B3	3	..	18436b	58	2212	25.2	+18 17	9.6	10.4	G5	2	..	37607i
9	5503	24.8	-45 3	7.1	7.4	B5	8	5,5 R	39931b	59	2052	25.2	+11 2	7.7	8.5	G5	3	..	37610i
10	2320	24.8	-54 8	8.5	8.9	B8	4	..	39868b	60	2864	25.2	-14 39	9.5	10.5	Ko	2	..	21395b
11	2321	24.8	-54 54	7.6	7.2	B5	7	..	39868b	61	7114	25.2	-26 9	6.80	7.8	G5	7	0,7	13281b
12	1274	24.8	-61 44	10.1	10.2	A3	1	..	40096b	62	6646	25.2	-27 17	8.1	9.9	K5	2	..	13281b
13	1063	24.8	-70 1	9.1	10.5	Ma	..	..	M	63	6645	25.2	-28 0	8.9	9.5	F8	3	..	13281b
14	507	24.8	-77 29	6.9	7.5	Go	10	..	21453b	64	6113	25.2	-33 35	7.8	8.1	F8	8	..	18436b
15	1075	24.9	+62 23	9.0	9.5	F8	2	..	37517i	65	5817	25.2	-37 57	6.24	6.3	A2	9	..	18436b
16	1872	24.9	+44 37	10.0	10.6	G	1	..	4904m	66	5323	25.2	-42 22	9.0	9.4	G5	3	..	39945b
17	2867	24.9	-14 9	9.5	10.3	G5	3	..	21395b	67	5185	25.2	-45 31	9.6	9.6	F5	1	..	39931b
18	2815	24.9	-21 38	8.6	9.3	A2	3	..	41239b	68	4973	25.2	-47 46	9.6	9.3	Fo	2	..	39931b
19	5917	24.9	-34 45	10.7	10.2	Ao	2	..	18436b	69	4734	25.2	-49 5	9.6	9.5	Ao	2	..	39931b
20	5811	24.9	-37 24	8.4	9.1	F8	4	..	18436b	70	1238	25.2	-62 28	9.3	10.1	G5	1	..	40096b
21	5505	24.9	-45 3	7.3	7.7	B8	6	2,3 R	39931b	71	504	25.3	+71 30	7.27	8.27	Ko	6	0,3	37706i
22	4728	24.9	-48 45	9.2	9.8	G5	1	..	39931b	72	1241	25.3	+59 20	8.1	9.1	Ko	2	..	37705i
23	4730	24.9	-49 2	9.6	9.5	F5	2	..	39931b	73	2255	25.3	+39 2	8.7	9.7	Ko	2	..	37459i
24	4417	24.9	-49 12	7.0	7.7	F2	7	2,6	39931b	74	1908	25.3	+29 43	9.09	9.87	G5	1	..	37741i
25	2212	24.9	-56 53	7.9	8.9	Ma	2	..	40105b	75	2109	25.3	+25 29	8.7	10.1	Ma	3	..	38646i
26	945	24.9	-68 51	8.2	8.5	Fo	3	..	22988b	76	2101	25.3	+13 56	7.6	8.6	Ko	3	..	37610i
27	2061	25.0	+15 22	8.6	9.2	G	1	E	38283i	77	2869	25.3	-14 0	9.0	9.5	F8	4	..	21395b
28	2100	25.0	+13 23	8.12	8.68	Go	2	..	37610i	78	2872	25.3	-14 23	8.6	9.7	K2	5	..	21395b
29	2912	25.0	-12 18	8.4	9.8	Ma	3	..	21395b	79	2693	25.3	-19 4	9.5	9.5	B9	2	..	41239b
30	2911	25.0	-12 58	9.2	10.2	Ko	1	..	21395b	80	2623	25.3	-22 54	6.50	7.9	Ko	6	..	13323b
31	7505	25.0	-29 33	8.9	9.6	F5	1	..	13281b	81	8145	25.3	-25 5	7.54	8.6	Ko	4	..	13323b
32	5543	25.0	-39 24	9.3	10.3	K5	1	..	18436b	82	5727	25.3	-35 51	9.4	9.4	A2	2	..	18436b
33	5241	25.0	-40 15	8.38	8.8	G5	5	..	18436b	83	5511	25.3	-44 22	8.2	9.3	Ko	2	..	39945b
34	5184	25.0	-45 36	9.0	10.1	K5	1	..	39931b	84	5512	25.3	-45 2	8.98	9.8	Ko	1	..	39931b
35	2457	25.0	-53 28	8.2	8.1	F8	4	..	39868b	85	5209	25.3	-46 59	9.4	9.5	Fo	2	..	39931b
36	1237	25.0	-62 10	9.5	9.9	F5	2	..	40096b	86	2393	25.3	-52 59	9.1	9.5	Ko	1	..	39868b
37	590	25.0	-74 59	10.6	10.7	A2	1	..	21453b	87	1016	25.3	-66 9	7.6	7.6	B8	7	..	40074b
38	621	25.1	+66 15	8.1	8.9	G5	2	..	37517i	88	584	25.3	-76 18	8.0	9.0	Ko	8	..	21453b
39	1764	25.1	+26 58	10.0	11.0	Ko	1	..	38646i	89	462	25.4	+72 39	5.82	6.24	F5	9	5,10	37706i
40	2062	25.1	+15 42	8.1	8.6	F8	3	E	38283i	90	1891	25.4	+32 10	9.1	9.7	Go	2	..	37741i
41	2207	25.1	-0 20	10.6	11.4	G5	1	..	19340b	91	1768	25.4	+27 50	6.59	6.59	Ao	10	..	37741i
42	2814	25.1	-5 34	8.2	8.3	A2	8	..	22976b	92	1956	25.4	+26 24	9.7	10.1	F5	1	..	38646i
43	2875	25.1	-18 10	8.8	9.1	Fo	3	..	41239b	93	2219	25.4	+3 16	9.2	9.8	Go	3	..	19340b
44	2690	25.1	-18 43	8.6	9.8	K5	1	..	41239b	94	2316	25.4	+1 42	7.7	7.7	Ao	9	..	19340b
45	2726	25.1	-19 57	9.2	9.6	Go	1	..	41239b	95	7601	25.4	-30 35	9.2	9.6	Ao	2	..	13281b
46	6644	25.1	-27 22	9.4	10.1	G5	1	..	13281b	96	5245	25.4	-40 21	9.8	9.7	F5	2	..	39945b
47	7507	25.1	-29 37	9.4	9.8	Ao	1	..	13281b	97	2067	25.4	-57 27	9.5	9.5	Ao	2	..	38748b
48	6109	25.1	-33 13	7.6	8.9	Mb	3	..	18436b	98	2015	25.5	+35 33	5.52	6.70	K5	..	0,6	56,86
49	5920	25.1	-34 9	9.4	9.6	Ao	3	..	18436b	99	2848	25.5	-9 43	9.7	10.2	F8	2	..	21395b
50	5724	25.1	-35 30	4.64	6.6	K2	..	2, R	28,203	100	2913	25.5	-12 18	9.2	10.0	G5	1	..	21395b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

82200

9^h 25^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2865	25.5	-15 11	8.01	9.01	Ko	3	..	41239b	51	8158	25.8	-24 36	8.7	9.3	A5	2	..	13323b
2	2806	25.5	-17 10	8.8	9.3	F8	3	..	41239b	52	6654	25.8	-27 15	8.3	8.9	B9	5	..	13281b
3	2695	25.5	-18 21	9.5	10.5	Ko	1	..	41239b	53	5824	25.8	-37 45	9.4	10.1	G5	1	..	18436b
4	2819	25.5	-21 42	7.9	8.4	Ao	6	..	41239b	54	5563	25.8	-39 21	8.8	9.1	F5	3	..	18436b
5	7117	25.5	-26 9	5.67	7.3	Ko	8	0.8	13323b	55	5217	25.8	-46 37	10.2	10.1	A3	1	..	39931b
6	5122	25.5	-41 54	9.4	9.7	A3	2	..	39945b	56	2473	25.8	-53 15	9.2	9.2	B9	2	..	39868b
7	5326	25.5	-44 7	7.1	7.6	F5	3	..	35949b	57	2340	25.8	-54 21	9.5	9.5	B8	2	..	39868b
8	4976	25.5	-47 51	8.4	7.8	A2	4	..	39931b	58	1070	25.8	-69 32	9.0	9.1	A2	2	..	22988b
9	509	25.5	-77 59	9.4	10.4	Ko	3	..	21453b	59	582	25.8	-75 20	8.03	8.6	G5	7	..	21453b
10	565	25.6	+70 16	4.57	5.13	Go	..	0, R	56,86	60	581	25.8	-75 24	9.8	9.9	A3	2	..	21453b
11	1342	25.6	+53 33	9.3	9.8	F8	2	..	38650i	61	1779	25.9	+48 45	7.7	8.7	Ko	2	..	38240i
12	1992	25.6	+36 52	7.07	8.14	K2	4	..	37345i	62	1768	25.9	+27 10	8.6	9.2	Go	2	..	38646i
13	2103	25.6	+13 55	8.6	9.1	F8	2	..	37610i	63	2047	25.9	+21 11	8.7	9.5	G5	3	..	37608i
14	2049	25.6	+12 18	8.9	9.9	Ko	2	E	38283i	64	2331	25.9	+20 42	7.18	8.18	Ko	5	..	37608i
15	2011	25.6	+10 35	7.6	7.7	A5	4	..	37610i	65	2104	25.9	+13 18	6.98	7.98	Ko	4	..	37610i
16	2526	25.6	+0 45	9.6	10.4	G5	1	..	19340b	66	2012	25.9	+10 44	8.3	8.9	Go	2	..	38283i
17	2915	25.6	-12 48	9.5	10.3	G5	1	..	21395b	67	2221	25.9	+3 32	7.22	7.72	F8	8	..	19340b
18	2697	25.6	-19 8	8.0	8.3	F2	6	..	41239b	68	2820	25.9	-5 14	6.90	7.90	Ko	8	..	22976b
19	2920	25.6	-20 34	9.2	9.6	G5	1	..	41239b	69	2827	25.9	-7 47	9.1	9.4	F2	3	E	21395b
20	6651	25.6	-27 48	7.38	7.3	B9	8	..	13281b	70	2826	25.9	-7 59	9.1	10.2	K2	3	E	21395b
21	6441	25.6	-32 53	8.1	9.0	K5	2	..	13047b	71	2870	25.9	-14 44	9.2	9.8	Go	3	..	21395b
22	5923	25.6	-34 28	10.4	10.1	Ao	1	..	18436b	72	2921	25.9	-20 33	8.0	8.1	Fo	5	..	41239b
23	5924	25.6	-34 55	8.7	8.8	Ao	4	..	18436b	73	6657	25.9	-27 45	8.9	8.9	F5	4	..	13281b
24	5328	25.6	-42 45	6.85	7.4	F5	5	..	35949b	74	7339	25.9	-28 51	9.2	10.1	A5	2	..	13281b
25	2334	25.6	-54 26	8.9	10.1	K2	1	..	39868b	75	7516	25.9	-29 43	7.6	8.6	K5	4	..	13281b
26	2071	25.6	-57 54	8.4	7.4	B8	7	..	38748b	76	5566	25.9	-40 7	10.7	10.0	Ao	2	..	39945b
27	1536	25.6	-58 43	8.0	9.0	Ko	5	..	38748b	77	5195	25.9	-46 2	9.0	8.9	Ao	4	..	39931b
28	1731	25.7	+45 30	8.8	9.8	Ko	4	0, I	4904m	78	3865	25.9	-52 0	7.5	7.7	B8	7	1, 2	39868b
29	2698	25.7	-3 38	7.28	8.35	K2	4	..	21505b	79	2073	25.9	-57 19	8.5	9.8	G5	1	..	38748b
30	2824	25.7	-7 55	8.7	9.7	Ko	3	E	21395b	80	1402	25.9	-59 35	8.0	8.2	Ao	7	..	38748b
31	2851	25.7	-10 14	9.31	10.31	Ko	2	..	21395b	81	1128	25.9	-63 55	8.7	9.5	G5	2	..	40221b
32	2867	25.7	-15 9	6.10	7.10	Ko	7	..	41239b	82	1110	25.9	-65 40	8.6	9.4	G5	2	..	40074b
33	2729	25.7	-19 22	8.6	8.7	Fo	3	..	41239b	83	1071	25.9	-69 14	9.0	9.8	G5	1	..	40074b
34	8441	25.7	-23 50	6.81	8.0	K2	5	..	13323b	84	511	25.9	-77 37	10.2	10.5	F2	2	..	21453b
35	7251	25.7	-25 35	9.7	10.4	F8	1	..	13281b	85	597	26.0	+67 14	7.37	7.79	F5	7	..	37517i
36	7336	25.7	-28 9	7.49	8.6	Ko	7	..	13281b	86	848	26.0	+63 17	8.3	9.1	G5	4	..	37517i
37	7337	25.7	-31 7	9.4	9.2	A2	2	..	13047b	87	1780	26.0	+48 36	7.87	8.15	Fo	4	..	38240i
38	5732	25.7	-36 3	9.6	9.9	Fo	1	..	18436b	88	1519	26.0	+46 12	9.8	9.9	A5	3	..	4904m
39	5561	25.7	-39 33	7.6	8.5	G5	4	..	18436b	89	1874	26.0	+44 40	8.42	9.20	G5	5	0, 3	4904m
40	5128	25.7	-41 29	8.1	8.5	F2	6	..	39945b	90	2218	26.0	+40 27	8.2	9.2	Ko	1	..	37459i
41	5332	25.7	-44 6	7.2	7.6	F5	3	..	35949b	91	2527	26.0	+0 11	9.9	10.9	Ko	1	..	19340b
42	2396	25.7	-52 38	8.8	9.0	A3	2	..	39868b	92	2928	26.0	-6 15	8.6	8.7	A3	3	..	22976b
43	2471	25.7	-54 4	9.1	8.9	B9	3	..	39868b	93	2870	26.0	-13 25	9.7	10.3	Go	1	..	21395b
44	1538	25.7	-59 4	7.9	9.4	F5	2	..	38748b	94	2819	26.0	-15 30	9.5	9.5	Ao	3	..	41239b
45	596	25.8	+67 12	9.0	9.6	G	2	..	37517i	95	5251	26.0	-40 36	8.7	8.9	F2	4	..	39945b
46	1873	25.8	+44 11	7.62	8.18	Go	6	0, 4	38336i	96	5130	26.0	-42 7	10.4	10.3	A	1	..	39945b
47	2018	25.8	+42 46	8.5	8.5	Ao	3	0, 3	37459i	97	4748	26.0	-48 17	7.4	8.3	G5	4	..	39931b
48	1957	25.8	+26 13	9.2	9.8	Go	1	..	38646i	98	4429	26.0	-50 0	9.44	9.2	A2	2	..	39931b
49	2111	25.8	+24 52	8.76	9.83	K2	1	..	38646i	99	1540	26.0	-58 8	9.0	9.0	Ao	3	..	38748b
50	2101	25.8	+13 4	10.6	10.9	F	1	..	37600i	100	1542	26.0	-58 55	9.5	9.9	F5	2	..	38748b

THE HENRY DRAPER CATALOGUE.

82300

9^h 26^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1017	26.0	-67 0	9.6	10.0	F5	1	..	40074b	51	381	26.3	+75 29	9.12	9.26	A5	3	..	37714i
2	592	26.0	-74 36	9.5	9.6	A2	3	..	21453b	52	1875	26.3	+43 53	9.1	9.9	G5	2	..	4904m
3	585	26.0	-76 49	7.8	9.0	K5	7	..	21453b	53	1995	26.3	+37 42	8.3	8.4	A2	2	..	37345i
4	312	26.1	+78 41	8.9	9.2	Fo	3	..	37714i	54	1893	26.3	+32 18	8.2	9.2	Ko	1	..	37741i
5	1194	26.1	+60 14	9.0	10.0	Ko	2	..	38224i	55	2215	26.3	+1 54	6.95	7.45	F8	9	..	19340b
6	1243	26.1	+59 5	9.5	10.1	Go	1	..	38224i	56	2916	26.3	-2 53	7.52	8.52	Ko	3	..	21505b
7	2113	26.1	+25 24	8.7	9.7	Ko	2	..	38646i	57	2822	26.3	-5 46	9.2	10.4	K5	1	..	22976b
8	2107	26.1	+23 25	4.48	5.66	K5	..	O, R	56,86	58	2923	26.3	-20 35	9.0	9.3	Go	2	..	41239b
9	2332	26.1	+20 26	7.37	8.37	Ko	4	..	37608i	59	2825	26.3	-21 16	8.4	9.0	K2	3	..	41239b
10	2199	26.1	+4 4	8.3	9.1	G5	4	..	19340b	60	7130	26.3	-26 23	8.7	10.1	Ma	1	..	13281b
11	2208	26.1	-0 18	9.46	9.46	Ao	4	..	19340b	61	7131	26.3	-26 58	9.1	10.4	Ko	2	..	13281b
12	2850	26.1	-9 16	9.0	10.0	Ko	2	..	21395b	62	7347	26.3	-28 11	8.32	8.6	F5	5	..	13281b
13	7522	26.1	-29 24	8.9	9.5	Ao	3	..	13281b	63	7348	26.3	-28 19	6.75	7.8	Ko	9	..	13281b
14	7611	26.1	-31 6	7.20	7.7	F2	6	..	13047b	64	7525	26.3	-29 57	9.30	9.6	Ko	2	..	13281b
15	6450	26.1	-32 57	6.92	7.6	Ko	6	..	13047b	65	6453	26.3	-32 33	9.0	9.0	A	1	..	13047b
16	5722	26.1	-36 28	10.2	10.4	A2	1	..	18436b	66	5572	26.3	-39 55	8.0	9.7	K5	3	..	18436b
17	5723	26.1	-36 39	8.4	8.1	Ao	7	..	18436b	67	2406	26.3	-53 1	8.9	8.7	B9	3	..	39868b
18	5829	26.1	-37 31	10.0	10.1	G5	1	..	18436b	68	1405	26.3	-59 10	9.9	9.9	Ao	1	..	38748b
19	5338	26.1	-42 47	8.8	7.9	Ao	3	..	35949b	69	1403	26.3	-60 1	8.52	9.3	K5	3	..	38748b
20	5337	26.1	-43 32	7.8	7.4	A2	4	..	35949b	70	219	26.3	-84 14	7.15	8.9	K2	6	..	13465b
21	5523	26.1	-44 29	7.9	8.0	F2	2	..	35949b	71	262	26.4	+82 49	7.49	7.49	Ao	6	2,7	37465i
22	4749	26.1	-48 10	9.8	9.5	Ao	1	..	39931b	72	2334	26.4	+20 29	8.3	8.7	F5	4	..	37608i
23	4433	26.1	-49 53	9.2	9.2	A2	3	..	39931b	73	2829	26.4	-7 42	8.4	9.5	K2	4	E	21395b
24	4195	26.1	-50 13	9.20	9.5	K5	1	..	39931b	74	8451	26.4	-23 12	9.2	8.7	Ao	3	..	13323b
25	2343	26.1	-54 22	7.7	7.7	B8	6	..	39868b	75	5727	26.4	-36 35	9.4	9.6	F5	2	..	18436b
26	1543	26.1	-59 4	8.9	9.4	F8	1	..	38748b	76	5137	26.4	-41 48	10.0	10.3	F5	1	..	39945b
27	402	26.2	+74 47	6.38	6.36	B9	8	I, IO	37706i	77	2349	26.4	-54 18	8.1	8.0	Ao	6	..	39868b
28	1401	26.2	+52 8	3.26	3.76	F8p	..	R	1746c	78	2077	26.4	-57 24	9.4	10.4	K	1	..	38748b
29	1732	26.2	+45 6	9.5	10.1	Go	1	..	4904m	79	1239	26.4	-62 47	8.5	8.8	Fo	3	..	40221b
30	1999	26.2	+30 53	9.1	9.7	G	1	..	37741i	80	1657	26.5	+49 53	6.50	6.58	A3	7	..	38240i
31	1770	26.2	+27 16	8.1	8.9	G5	2	..	37741i	81	2014	26.5	+10 9	5.28	6.28	Ko	9	R	37610i
32	1984	26.2	+16 13	7.78	8.78	Ko	3	5,3	37608i	82	2184	26.5	+6 39	8.7	9.5	G5	2	..	19340b
33	2214	26.2	+2 43	7.7	8.5	G5	6	..	19340b	83	7355	26.5	-31 26	7.21	5.9	Ao	7	R	43038b
34	2700	26.2	-4 4	8.5	9.7	K5	2	..	21505b	84	7355	26.5	-31 27	6.35	5.9	Ao	7	R	43038b
35	2828	26.2	-8 10	8.6	8.9	F2	4	E	21395b	85	5835	26.5	-37 55	9.4	8.8	Ao	3	..	18436b
36	2852	26.2	-9 23	9.2	10.2	Ko	1	..	21395b	86	5529	26.5	-44 26	7.8	8.0	Go	3	..	35949b
37	2853	26.2	-10 5	9.9	10.9	Ko	1	..	21395b	87	5227	26.5	-46 31	9.8	9.5	Ao	2	..	39931b
38	2917	26.2	-13 5	9.5	10.9	Mb	..	..	M	88	2218	26.5	-56 7	7.9	7.7	A2	6	..	39868b
39	2821	26.2	-15 18	8.35	8.91	Go	4	..	41239b	89	1443	26.5	-60 36	8.9	10.2	Go	2	..	40096b
40	2627	26.2	-23 4	8.0	8.7	Ko	2	..	13323b	90	86	26.5	-88 37	7.3	7.6	Fo	6	..	13459b
41	7258	26.2	-25 10	7.74	8.0	A3	7	..	13323b	91	1520	26.6	+46 8	9.8	10.8	Ko	1	..	4904m
42	7352	26.2	-31 41	8.9	9.0	Ko	2	..	13047b	92	1930	26.6	+43 45	7.9	8.9	Ko	4	0,7-	38336i
43	5738	26.2	-36 5	10.2	10.1	Ao	2	..	18436b	93	1875	26.6	+30 1	9.2	9.5	F	2	..	37741i
44	5724	26.2	-36 9	9.0	9.6	Ao	4	..	18436b	94	2102	26.6	+22 18	7.52	8.52	Ko	5	..	37608i
45	5254	26.2	-40 51	10.2	10.0	A2	2	..	39945b	95	2053	26.6	+11 45	5.12	5.90	G5	9	R	37610i
46	4197	26.2	-50 9	7.34	7.8	Fo	7	2,8	39868b	96	2854	26.6	-9 33	8.13	8.41	Fo	5	..	21395b
47	1277	26.2	-61 50	6.01	7.7	Ko	8	..	40221b	97	8175	26.6	-24 25	8.1	8.3	B9	5	..	13323b
48	1129	26.2	-63 29	8.8	10.0	K5	1	..	40221b	98	8173	26.6	-24 41	8.5	9.5	G5	2	..	13323b
49	1086	26.2	-67 35	8.3	8.3	Ao	6	..	40074b	99	7138	26.6	-26 28	10.2	10.1	Fo	1	..	13281b
50	833	26.2	-71 10	5.48	7.4	Ko	5	5,9	4821b	100	5730	26.6	-36 13	9.0	9.6	G5	2	..	18436b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

82400

9^h 26^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5638	26.6	-38 33	10.9	10.3	Ao	2	..	18436b	51	7146	26.9	-26 22	10.4	11.0	Go	1	..	13281b
2	5261	26.6	-40 46	10.0	9.4	B9	2	..	39945b	52	6674	26.9	-27 43	7.9	9.8	K2	2	..	13281b
3	2489	26.6	-54 0	8.3	9.5	K2	2	..	39868b	53	5644	26.9	-38 50	8.4	9.4	Ko	3	..	18436b
4	1545	26.6	-58 48	8.9	9.4	K2	3	..	38748b	54	5584	26.9	-40 0	8.94	8.5	A3	4	..	18436b
5	1242	26.6	-63 1	8.0	8.0	B9	5	..	40221b	55	4996	26.9	-47 10	8.8	8.7	G5	2	..	39931b
6	1018	26.6	-66 15	6.18	6.1	Ao	7	..	4821b	56	4444	26.9	-49 53	9.4	9.8	Ko	1	..	39931b
7	1681	26.7	+46 56	10.3	10.6	F	1	..	4904m	57	3880	26.9	-51 53	8.8	8.0	B8	5	..	39868b
8	1521	26.7	+45 57	6.61	7.61	Ko	5	0,10	38336i	58	835	26.9	-71 21	6.58	7.8	F2	8	..	22988b
9	1773	26.7	+27 2	9.7	9.7	Ao	1	..	37741i	59	742	27.0	+64 10	9.3	9.7	F5	3	..	37517i
10	2054	26.7	+11 27	7.9	8.5	Go	2	..	38283i	60	1522	27.0	+46 40	8.5	9.1	Go	5	5,3	4904m
11	2831	26.7	-7 44	9.1	9.2	A2	4	E	21395b	61	2335	27.0	+20 18	8.6	9.6	Ko	3	..	37608i
12	2652	26.7	-11 38	7.14	8.14	Ko	8	..	21395b	62	2701	27.0	-3 58	8.6	9.6	Ko	2	..	21505b
13	2874	26.7	-14 43	9.9	10.0	A3	3	..	21395b	63	2698	27.0	-8 43	9.5	10.5	Ko	1	..	21395b
14	5838	26.7	-37 59	8.7	8.8	F5	4	..	18436b	64	2812	27.0	-16 38	9.0	10.0	K	1	..	41239b
15	5140	26.7	-41 44	8.4	9.1	Go	3	..	39945b	65	5746	27.0	-35 31	8.0	7.8	Ao	7	..	18436b
16	5532	26.7	-44 27	8.6	8.6	F2	2	..	46200b	66	2363	27.0	-54 30	8.3	8.1	B8	5	..	39868b
17	5229	26.7	-46 23	9.6	9.0	A2	3	..	39931b	67	1546	27.0	-58 26	9.3	9.3	Ao	3	..	38748b
18	4441	26.7	-49 49	9.8	9.8	A	1	..	39931b	68	1278	27.0	-61 55	6.65	7.0	Ao	8	..	40221b
19	4204	26.7	-51 4	5.60	5.4	B8	..	1,7-	56,127	69	1038	27.0	-64 12	9.5	9.5	Ao	1	..	40221b
20	2415	26.7	-52 22	8.7	9.2	A5	2	..	39868b	70	905	27.0	-70 18	9.4	9.5	A2	2	..	40074b
21	2081	26.7	-57 52	7.4	7.8	Ko	8	..	38748b	71	823	27.0	-73 4	7.9	8.0	A3	5	..	22988b
22	1445	26.7	-60 25	10.2	10.2	A	2	..	40096b	72	623	27.1	+65 50	7.92	8.92	Ko	4	..	37517i
23	446	26.7	-78 39	7.84	7.7	B9	10	..	21453b	73	1997	27.1	+37 6	8.1	8.9	G5	2	..	37345i
24	1876	26.8	+44 11	10.3	10.9	G	1	..	4904m	74	2000	27.1	+31 0	7.9	8.9	Ko	4	..	37741i
25	2917	26.8	-2 57	7.48	7.48	Ao	7	..	21505b	75	1776	27.1	+27 38	8.5	8.8	Fo	4	..	37741i
26	2933	26.8	-7 4	7.8	7.9	A5	7	2,8	22976b	76	2654	27.1	-4 39	9.2	9.3	A2	2	..	22976b
27	2696	26.8	-8 17	9.5	9.8	F2	2	E	21395b	77	2858	27.1	-9 55	6.32	7.32	Ko	7	..	21395b
28	2856	26.8	-10 6	6.06	6.20	A5	9	..	21395b	78	2921	27.1	-12 38	9.5	10.0	F8	2	..	21395b
29	2920	26.8	-12 38	8.6	9.1	F8	4	..	21395b	79	2873	27.1	-13 18	9.2	10.2	Ko	3	..	21395b
30	2885	26.8	-17 59	8.2	9.3	K2	2	..	41239b	80	2886	27.1	-17 46	9.5	9.5	A	2	..	41239b
31	2927	26.8	-20 17	9.08	9.0	Ao	2	..	41239b	81	2929	27.1	-20 54	8.4	8.7	G5	3	..	41239b
32	8457	26.8	-23 54	7.42	8.5	K2	4	..	13323b	82	2831	27.1	-21 16	9.9	9.6	Ao	1	..	41239b
33	5579	26.8	-39 18	9.4	10.0	A2	2	..	18436b	83	7365	27.1	-31 31	9.7	9.2	A2	3	..	13047b
34	5580	26.8	-40 2	3.64	4.06	F5	..	5,4 R	28,203	84	5586	27.1	-39 31	8.4	8.5	A3	7	..	18436b
35	5267	26.8	-40 58	8.7	9.1	F5	3	..	39945b	85	2252	27.1	-56 52	9.0	9.8	Ko	1	..	40105b
36	5202	26.8	-45 7	6.74	7.7	Ko	4	0,7	35949b	86	1039	27.1	-65 5	9.1	9.7	Go	2	..	40074b
37	4205	26.8	-50 13	9.70	9.2	Ao	2	..	39931b	87	1019	27.1	-66 20	9.4	9.4	Ao	2	..	40074b
38	3874	26.8	-51 36	9.2	10.1	K5	1	..	39868b	88	722	27.2	+64 55	8.80	9.58	G5	3	..	37517i
39	2418	26.8	-52 18	8.6	9.2	Fo	3	..	39868b	89	2054	27.2	+11 50	8.5	9.0	F8	1	..	37610i
40	2222	26.8	-55 36	9.3	9.3	Ao	2	..	39868b	90	2919	27.2	-3 5	7.8	8.8	Ko	3	..	21505b
41	1195	26.9	+60 46	9.1	10.1	Ko	1	..	38224i	91	2826	27.2	-5 20	9.30	9.38	A3	3	..	22976b
42	1347	26.9	+52 52	7.53	7.61	A3	4	..	38240i	92	2876	27.2	-14 20	8.6	9.7	K2	3	..	21395b
43	1775	26.9	+27 27	7.13	8.13	Ko	7	..	37741i	93	2824	27.2	-15 32	9.2	10.2	Ko	1	..	21395b
44	2055	26.9	+11 13	7.8	7.9	A5	3	..	37610i	94	2813	27.2	-16 22	8.6	9.4	G5	2	..	41239b
45	2224	26.9	+3 44	9.4	10.4	Ko	1	..	19340b	95	7532	27.2	-30 6	9.9	10.4	Ko	1	..	13281b
46	2211	26.9	-0 44	4.50	4.58	A3	..	R	56,86	96	5950	27.2	-35 0	9.3	9.9	Ao	2	..	18436b
47	2653	26.9	-4 39	8.2	8.3	A2	8	..	22976b	97	5649	27.2	-38 31	9.3	10.2	Ko	2	..	18436b
48	2854	26.9	-10 59	9.5	10.3	G5	3	..	21395b	98	5536	27.2	-44 49	9.1	9.0	A5	3	0,3	39931b
49	2871	26.9	-14 7	9.9	11.0	K2	1	..	21395b	99	5237	27.2	-46 49	9.2	9.0	Ao	2	..	39931b
50	2629	26.9	-23 3	7.65	7.6	A2	6	..	13323b	100	1280	27.2	-61 9	8.5	9.3	F5	3	..	40221b

THE HENRY DRAPER CATALOGUE.

82500

9^h 27^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1020	27.2	-66 11	10.0	10.0	A	1	..	40074b	51	5217	27.5	-45 11	8.28	8.4	A2	6	2,3	39931b
2	1312	27.3	+54 29	7.16	8.16	Ko	6	..	3865oi	52	5215	27.5	-45 35	8.2	8.0	Fo	5	..	39931b
3	1524	27.3	+46 47	8.8	9.8	Ko	3	0,1	4904m	53	586	27.5	-77 7	9.8	10.8	Ko	1	..	21453b
4	2147	27.3	+7 30	7.50	8.57	K2	3	..	3761oi	54	350	27.5	-80 22	5.44	5.6	F2p	..	0,5 R	56,127
5	2704	27.3	-3 59	9.0	9.4	F5	1	..	21505b	55	1734	27.6	+45 44	7.8	7.9	A3	4	1,9	38336i
6	2700	27.3	-8 19	9.2	9.5	F2	3	E	21395b	56	2104	27.6	+22 38	9.1	9.2	A5	3	0,3	38646i
7	2859	27.3	-9 26	9.9	11.1	K5	1	..	21395b	57	2203	27.6	+4 7	8.7	9.3	Go	5	..	19340b
8	2856	27.3	-10 24	7.71	8.27	Go	7	..	21395b	58	2857	27.6	-10 45	7.5	8.5	Ko	7	..	21395b
9	2888	27.3	-17 37	9.5	9.5	A	1	..	41239b	59	2931	27.6	-20 16	8.78	9.0	F5	3	..	41239b
10	2833	27.3	-21 20	9.2	9.1	Ao	2	..	41239b	60	7273	27.6	-25 32	10.6	10.7	A	1	..	13281b
11	2632	27.3	-22 53	8.0	9.1	K2	1	..	13323b	61	6682	27.6	-27 47	8.2	8.7	G5	4	..	13281b
12	7151	27.3	-26 15	10.2	10.4	Go	1	..	13281b	62	5754	27.6	-36 6	9.3	9.4	Ao	3	..	18436b
13	7369	27.3	-31 25	5.96	6.9	Fo	..	0,6 R	56,127	63	5151	27.6	-41 28	8.0	8.8	F2	6	..	39945b
14	5751	27.3	-35 16	5.96	7.0	Ko	8	..	18436b	64	2449	27.6	-52 51	9.7	9.8	A2	2	..	39868b
15	5539	27.3	-45 2	8.84	9.3	Ko	1	..	39931b	65	1246	27.6	-62 16	9.4	10.4	Ko	1	..	40096b
16	5238	27.3	-46 56	8.6	9.0	Ko	2	..	39931b	66	1245	27.6	-62 31	9.7	9.7	Ao	2	..	40096b
17	4764	27.3	-48 59	7.8	8.1	A2	4	0,5	39931b	67	837	27.6	-71 59	7.6	7.6	B9	5	..	22988b
18	2368	27.3	-54 48	7.66	8.6	Ma	4	..	39868b	68	587	27.6	-76 49	9.7	10.7	Ko	2	..	21453b
19	1281	27.3	-61 26	9.1	10.1	Ko	1	..	40096b	69	1132	27.7	+61 20	7.17	7.45	Fo	8	..	37517i
20	836	27.3	-71 13	8.8	8.9	A2	2	..	22988b	70	1914	27.7	+29 19	9.1	9.9	G5	1	..	37741i
21	1932	27.4	+43 19	9.6	10.6	Ko	1	..	4904m	71	2204	27.7	+4 42	9.35	9.91	Go	2	..	19340b
22	1998	27.4	+36 56	6.41	7.48	K2	..	2,6	56,86	72	2213	27.7	-0 19	8.83	9.90	K2	4	..	19340b
23	1913	27.4	+28 49	6.35	6.41	A2	10	..	37741i	73	2708	27.7	-18 58	5.70	5.76	A2	10	..	41239b
24	2187	27.4	+6 20	8.9	9.5	Go	2	..	19340b	74	7277	27.7	-25 9	9.85	9.9	Fo	3	..	13281b
25	2656	27.4	-11 51	8.8	9.8	Ko	3	..	21395b	75	7369	27.7	-28 36	8.1	8.3	Fo	5	..	13281b
26	2814	27.4	-16 27	9.0	10.1	K2	1	..	41239b	76	5364	27.7	-43 52	9.1	8.7	A2	3	..	39945b
27	2815	27.4	-16 57	8.7	9.2	F8	2	..	41239b	77	5548	27.7	-45 3	9.38	9.3	A2	2	..	39931b
28	2734	27.4	-19 42	9.2	9.4	A2	2	..	41239b	78	5002	27.7	-47 31	6.84	7.3	Fo	9	..	39931b
29	6477	27.4	-33 6	8.4	9.5	Ko	1	..	13047b	79	2094	27.7	-57 42	9.0	9.2	Go	2	..	38748b
30	6144	27.4	-33 36	8.7	9.8	Ko	1	..	13047b	80	743	27.8	+64 43	10.00	10.56	G	1	..	37517i
31	5740	27.4	-36 18	7.22	8.4	Ko	7	..	18436b	81	1848	27.8	+49 12	7.65	8.65	Ko	3	..	38240i
32	5652	27.4	-38 11	8.5	10.2	K2	2	..	18436b	82	1683	27.8	+47 20	6.43	6.57	A5	7	..	38240i
33	2440	27.4	-53 5	8.2	8.4	Go	2	..	39868b	83	1525	27.8	+46 29	8.7	9.7	Ko	5	0,3	4904m
34	2371	27.4	-54 10	9.3	9.3	B8	2	..	39868b	84	1735	27.8	+45 41	9.6	10.6	Ko	1	..	4904m
35	2255	27.4	-56 18	9.0	8.9	A2	3	..	39868b	85	1934	27.8	+43 44	8.9	10.1	K5	2	0,1	4904m
36	2090	27.4	-57 56	5.78	7.6	Ma	..	0,7	56,127	86	2261	27.8	+39 31	8.9	9.7	G5	2	..	37459i
37	1551	27.4	-58 8	9.0	9.0	Ao	2	..	38748b	87	2858	27.8	-10 43	9.2	10.3	K2	2	..	21395b
38	1282	27.4	-61 15	9.0	9.4	Ao	2	..	40096b	88	2874	27.8	-13 27	9.1	9.9	G5	2	..	21395b
39	358	27.5	+76 36	8.1	9.1	Ko	4	..	37714i	89	2826	27.8	-15 50	9.7	10.7	Ko	1	..	21395b
40	1222	27.5	+57 1	9.0	10.2	K5	1	..	38224i	90	2817	27.8	-17 0	9.5	10.1	Go	1	..	41239b
41	2191	27.5	+5 35	8.9	10.0	K2	3	..	19340b	91	7637	27.8	-30 10	9.1	10.1	Ko	1	..	13281b
42	2227	27.5	+3 24	8.9	9.9	Ko	2	..	19340b	92	7636	27.8	-30 40	10.4	9.8	A5	2	..	13281b
43	2217	27.5	+2 19	6.15	6.57	F5	10	..	19340b	93	7375	27.8	-31 49	7.9	8.3	A2	4	..	13047b
44	2320	27.5	+1 7	9.9	10.4	F8	2	..	19340b	94	6150	27.8	-33 10	9.1	9.2	G5	1	..	13047b
45	2273	27.5	-1 24	9.2	9.7	F8	4	..	19340b	95	5745	27.8	-36 26	8.4	9.1	Ko	3	..	18436b
46	2834	27.5	-7 18	9.0	10.0	Ko	4	0,3	22976b	96	5744	27.8	-36 36	10.4	9.6	A2	2	..	18436b
47	7157	27.5	-26 42	8.2	9.2	K2	3	..	13281b	97	2244	27.8	-55 12	8.72	8.9	G5	2	..	39868b
48	7372	27.5	-31 22	9.7	8.6	Ao	3	..	13047b	98	2262	27.8	-56 55	9.0	9.2	F5	2	..	40105b
49	5589	27.5	-39 51	8.2	9.1	G5	4	..	18436b	99	1555	27.8	-58 17	9.1	9.9	Ko	1	..	38748b
50	5545	27.5	-44 48	9.6	9.3	A2	3	2,3	39945b	100	1284	27.8	-61 22	8.1	9.6	K5	3	..	40221b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

82600

9^h 27^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	952	27.8	-68 18	9.1	9.1	Ao	4	..	40074b	51	2118	28.2	+25 19	9.2	10.0	G5	2	..	38646i
2	464	27.9	+72 32	7.24	7.66	F5	6	..	37714i	52	2056	28.2	+12 32	9.4	10.2	G5	1	..	37610i
3	1526	27.9	+45 59	9.5	10.5	Ko	2	..	4904m	53	2192	28.2	+5 7	9.9	10.5	Go	2	..	19340b
4	2220	27.9	+18 43	8.4	8.7	F2	3	..	37608i	54	2275	28.2	-1 53	9.2	9.5	F2	4	E	19340b
5	2200	27.9	+9 37	8.3	8.4	A3	3	..	37610i	55	2702	28.2	-8 52	9.2	10.4	K5	1	..	21395b
6	2205	27.9	+4 37	8.40	8.96	Go	6	..	19340b	56	2861	28.2	-9 50	9.1	9.5	F5	3	..	21395b
7	2274	27.9	-1 52	8.9	10.0	K2	4	..	19340b	57	2660	28.2	-11 43	10.4	10.4	Ao	2	..	21395b
8	2859	27.9	-10 27	10.4	10.9	F8	1	..	21395b	58	2659	28.2	-12 9	8.6	8.9	Fo	7	..	21395b
9	7165	27.9	-26 29	9.2	9.3	Ao	4	..	13281b	59	2658	28.2	-12 12	9.2	9.8	G	2	..	21395b
10	7373	27.9	-28 11	var.	var.	Fo	9	R	13281b	60	2926	28.2	-13 4	6.21	7.39	K5	9	..	21395b
11	6482	27.9	-33 0	8.8	8.9	G5	2	..	13047b	61	2876	28.2	-13 34	7.11	7.89	G5	8	..	21395b
12	5850	27.9	-37 28	9.0	10.2	Ko	1	..	18436b	62	5221	28.2	-45 22	9.0	8.7	Ao	4	..	39931b
13	5665	27.9	-38 57	8.7	9.7	Ko	3	..	18436b	63	5254	28.2	-46 56	9.0	8.6	A3	3	..	39931b
14	5154	27.9	-42 4	8.7	9.7	Ko	2	..	39945b	64	4230	28.2	-50 49	8.3	8.6	A5	6	..	39868b
15	4223	27.9	-50 55	9.6	8.9	Ao	4	..	39868b	65	3902	28.2	-51 30	9.0	9.6	Ko	2	..	39868b
16	1249	27.9	-63 4	8.8	10.0	K5	1	..	40221b	66	3901	28.2	-52 3	10.2	9.8	A2	1	..	39868b
17	516	27.9	-77 15	8.7	10.1	Ma	5	..	21453b	67	2467	28.2	-52 41	9.3	9.3	Ao	2	..	39868b
18	79	28.0	+87 34	8.7	9.7	Ko	3	..	37793i	68	2270	28.2	-56 36	3.04	4.22	K5	..	5, R	28, 203
19	403	28.0	+74 47	7.72	7.86	A5	5	..	37714i	69	1878	28.3	+43 50	10.3	10.8	F8	1	..	4904m
20	567	28.0	+70 5	7.12	7.40	Fo	7	..	37706i	70	2104	28.3	+23 53	6.43	7.61	K5	7	..	37608i
21	1402	28.0	+52 30	4.65	4.65	Ao	..	..	1746c	71	2193	28.3	+5 9	9.2	10.3	K2	1	..	19340b
22	1403	28.0	+51 51	9.3	10.1	G5	1	..	38650i	72	2207	28.3	+4 15	8.6	9.0	F5	6	..	19340b
23	2264	28.0	+39 34	8.5	9.5	Ko	2	..	37459i	73	2707	28.3	-3 58	8.4	9.2	G5	2	..	21505b
24	2226	28.0	+19 10	7.9	8.9	Ko	4	..	37608i	74	2939	28.3	-6 45	6.39	7.39	Ko	8	..	22976b
25	2875	28.0	-13 34	9.7	10.0	Fo	2	..	21395b	75	2863	28.3	-9 41	8.4	9.2	G5	4	..	21395b
26	2893	28.0	-17 18	9.2	10.2	Ko	1	..	41239b	76	2878	28.3	-14 2	9.2	9.5	F2	3	..	21395b
27	5667	28.0	-38 30	7.54	7.6	B9	7	..	18436b	77	2838	28.3	-21 19	9.7	9.3	Ao	1	..	41239b
28	5599	28.0	-39 17	8.5	9.4	K2	3	..	18436b	78	7175	28.3	-26 59	7.6	9.2	Ma	5	..	13281b
29	5282	28.0	-40 58	8.7	9.1	F8	3	..	39945b	79	6695	28.3	-28 0	10.9	11.0	Ao	2	..	13281b
30	5368	28.0	-43 35	9.4	9.0	F5	3	..	39945b	80	5856	28.3	-38 0	9.4	9.4	Ao	3	..	18436b
31	5251	28.0	-46 50	9.1	8.6	Ao	3	..	39931b	81	5223	28.3	-46 4	9.1	9.3	A3	3	..	39931b
32	826	28.0	-72 31	9.1	9.2	A3	2	..	40074b	82	2256	28.3	-56 0	8.5	8.9	F8	3	..	39868b
33	604	28.0	-73 42	9.8	9.8	Ao	2	..	21453b	83	1408	28.3	-60 1	7.92	9.0	Ko	5	..	38748b
34	352	28.0	-80 41	8.66	9.7	Ko	2	0,1	20869b	84	1022	28.3	-66 46	8.1	9.1	Ko	5	..	40074b
35	2004	28.1	+36 51	4.62	5.40	G5	..	0,8	56,86	85	470	28.4	+73 32	6.43	6.71	Fo	9	..	37714i
36	2022	28.1	+35 14	7.87	8.65	G5	2	E	37345i	86	1659	28.4	+50 42	9.0	10.1	K2	1	..	38650i
37	1879	28.1	+33 27	8.3	9.4	K2	2	..	37741i	87	1879	28.4	+44 14	10.3	10.3	A	1	..	4904m
38	2836	28.1	-8 4	6.30	7.30	Ko	9	..	21395b	88	2834	28.4	-6 4	8.8	9.1	F2	4	..	22976b
39	2924	28.1	-12 49	9.2	10.4	K5	2	..	21395b	89	2837	28.4	-7 41	9.7	10.3	Go	2	..	22976b
40	7284	28.1	-25 59	8.1	8.6	F8	6	0,3	13281b	90	2841	28.4	-22 5	8.0	8.1	F5	5	..	13323b
41	5764	28.1	-35 35	8.0	9.1	Ko	3	..	18436b	91	8487	28.4	-23 22	8.5	8.3	Ao	4	..	13323b
42	5252	28.1	-47 3	9.2	9.0	F8	1	..	39931b	92	6157	28.4	-33 34	9.6	8.9	Ao	3	..	13047b
43	4467	28.1	-49 20	10.0	9.5	Ao	1	..	39931b	93	5858	28.4	-37 53	8.0	8.2	Ao	5	..	18436b
44	2513	28.1	-53 22	7.7	7.7	B9	6	..	39868b	94	5284	28.4	-40 13	5.36	7.2	Ko	..	5,6	28, 203
45	2249	28.1	-55 8	8.32	9.0	G5	3	..	39868b	95	5007	28.4	-47 45	7.6	8.3	Ko	5	..	39931b
46	1133	28.1	-63 39	8.3	9.7	Mb	2	..	40221b	96	4473	28.4	-49 35	10.5	9.5	Ao	1	..	39931b
47	1074	28.1	-69 15	8.9	10.3	Ma	1	..	21452b	97	1561	28.4	-58 59	9.4	10.4	Ko	1	..	38748b
48	595	28.1	-74 56	9.1	10.1	Ko	1	..	21453b	98	1409	28.4	-59 28	8.9	9.9	Ko	1	..	38748b
49	1779	28.2	+27 48	8.1	8.5	F5	6	..	37741i	99	1287	28.4	-61 31	8.6	9.4	Ko	3	..	40221b
50	1780	28.2	+27 15	8.5	9.5	Ko	2	..	37741i	100	584	28.4	-75 42	9.0	9.8	G5	3	..	21453b

THE HENRY DRAPER CATALOGUE.

82700

9^h 28^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	386	28.5	+75 39	6.66	7.66	Ko	7	..	37714i	51	1412	28.8	-59 45	8.4	9.7	K5	2	..	38748b
2	723	28.5	+64 50	8.40	9.18	G5	3	..	37517i	52	518	28.8	-77 19	9.5	10.7	K5	1	..	21453b
3	1134	28.5	+61 40	8.1	8.5	F5	3	3,3	38224i	53	80	28.9	+86 54	8.7	9.7	Ko	2	..	37546i
4	2112	28.5	+23 6	10.2	11.2	Ko	1	..	38646i	54	279	28.9	+82 1	9.0	9.6	G	2	..	37493i
5	2189	28.5	+6 58	8.9	9.4	F8	3	..	19340b	55	2003	28.9	+31 28	8.5	8.6	A5	3	..	37741i
6	2927	28.5	-12 45	8.6	8.6	Ao	7	..	21395b	56	2228	28.9	+18 51	8.3	9.4	K2	2	..	37608i
7	2881	28.5	-14 27	10.6	11.1	F8	2	..	21395b	57	2869	28.9	-9 54	8.8	9.4	Go	4	..	21395b
8	2829	28.5	-15 13	10.1	10.1	Ao	2	..	21395b	58	6498	28.9	-32 38	8.0	9.2	K5	2	..	13047b
9	6699	28.5	-27 14	7.7	8.0	A5	7	..	13281b	59	5975	28.9	-34 52	9.1	9.7	A5	2	..	18436b
10	7385	28.5	-28 29	9.7	10.4	A5	2	..	13281b	60	5864	28.9	-37 43	8.4	8.2	Ao	5	..	18436b
11	5288	28.5	-40 45	7.9	8.2	G5	5	..	39945b	61	5165	28.9	-41 35	9.3	9.7	F5	2	..	39945b
12	4778	28.5	-48 58	7.8	8.7	G5	3	..	39931b	62	4785	28.9	-48 26	10.5	9.6	A2	1	..	39931b
13	2102	28.5	-57 59	9.0	9.5	Ao	2	..	38748b	63	2479	28.9	-52 20	10.1	10.1	Ao	1	..	39868b
14	1450	28.5	-60 49	9.9	9.9	Ao	2	..	40096b	64	2282	28.9	-56 33	7.2	7.2	B8	6	..	39868b
15	956	28.5	-68 33	8.7	9.8	K2	1	..	40074b	65	1112	28.9	-65 36	8.3	9.4	K2	3	..	40074b
16	356	28.5	-80 18	9.2	10.2	Ko	4	..	21453b	66	1393	29.0	+56 0	9.6	10.6	Ko	2	..	38224i
17	308	28.6	+81 7	9.1	9.1	Ao	3	..	37493i	67	2225	29.0	+40 26	8.7	9.3	Go	3	..	37459i
18	314	28.6	+77 50	9.0	10.0	K	2	..	37714i	68	2223	29.0	+18 24	8.6	8.9	Fo	4	..	37608i
19	851	28.6	+63 14	7.28	7.56	Fo	7	..	37517i	69	2928	29.0	-12 29	10.1	10.5	F5	1	..	21395b
20	2276	28.6	-2 7	8.87	8.87	Ao	5	E	19340b	70	2884	29.0	-13 56	9.5	10.3	G5	3	..	21395b
21	2860	28.6	-10 30	9.7	10.0	F2	2	..	21395b	71	2884	29.0	-14 16	10.1	10.7	G	1	..	21395b
22	2714	28.6	-18 27	8.7	8.8	A5	3	..	41239b	72	2828	29.0	-16 21	9.2	9.7	F8	2	..	41239b
23	2937	28.6	-20 17	8.58	9.0	A5	4	..	41239b	73	7396	29.0	-31 49	8.9	8.9	Ao	2	..	13047b
24	2938	28.6	-20 57	6.70	6.7	Ao	8	..	41239b	74	5778	29.0	-35 58	7.6	7.8	Ao	8	..	18436b
25	7184	28.6	-26 39	9.4	10.1	Ao	2	..	13281b	75	5266	29.0	-46 7	10.9	9.8	Ao	1	..	39931b
26	5757	28.6	-36 47	8.0	8.2	Fo	5	..	18436b	76	5267	29.0	-46 45	10.5	10.0	Go	1	..	39931b
27	5162	28.6	-41 49	8.5	9.4	G5	3	..	39945b	77	4787	29.0	-49 4	9.2	9.5	Go	2	..	39931b
28	5375	28.6	-43 11	10.0	9.3	Ao	2	..	39945b	78	4242	29.0	-50 32	10.0	9.2	Ao	3	..	39868b
29	5259	28.6	-46 43	7.8	7.7	Fo	6	..	39931b	79	2106	29.0	-57 15	8.8	9.3	Go	2	..	40105b
30	1410	28.6	-59 9	9.1	9.9	G5	1	..	38748b	80	2226	29.1	+40 24	6.56	6.90	F2	8	..	37459b
31	1111	28.6	-65 45	8.4	9.4	Ko	3	..	40074b	81	2660	29.1	-4 39	9.2	10.3	K2	2	..	22976b
32	1023	28.6	-66 51	9.1	10.2	K2	1	..	40074b	82	2871	29.1	-10 7	8.66	9.73	K2	3	..	21395b
33	1880	28.7	+44 6	8.5	9.3	G5	4	0,2	4904m	83	7655	29.1	-30 14	9.2	10.1	Ko	1	..	13281b
34	2936	28.7	-20 41	5.16	6.2	Ko	9	..	41239b	84	5764	29.1	-36 33	10.0	9.9	Ao	1	..	18436b
35	8490	28.7	-23 42	9.4	9.0	Go	1	..	13323b	85	5676	29.1	-38 42	6.41	7.8	F2	8	..	18436b
36	7387	28.7	-28 23	9.1	9.5	A3	2	..	13281b	86	5381	29.1	-42 21	9.1	10.2	K2	2	..	39945b
37	2475	28.7	-53 6	7.6	7.7	B8	6	..	39868b	87	5380	29.1	-42 48	10.2	10.2	A2	2	..	39945b
38	1453	28.7	-60 55	9.3	9.9	Go	2	..	40096b	88	5017	29.1	-47 51	10.5	9.0	Ao	2	..	39931b
39	1341	28.8	+55 8	8.7	9.7	Ko	1	..	38650i	89	2277	29.1	-55 34	8.2	8.3	F5	5	..	39868b
40	1350	28.8	+53 45	8.3	8.6	F2	4	..	38650i	90	1024	29.1	-66 55	8.6	8.6	B9	5	..	40074b
41	2224	28.8	+40 4	4.99	5.99	Ko	..	5,10	56,86	91	1351	29.2	+53 45	8.5	8.9	F5	3	..	38650i
42	2002	28.8	+31 0	8.7	9.3	Go	2	..	37741i	92	1850	29.2	+48 56	6.92	7.34	F5	5	..	38240i
43	2840	28.8	-7 16	9.9	10.2	Fo	2	..	22976b	93	2105	29.2	+16 54	8.7	9.3	G	3	E	37608i
44	2862	28.8	-10 57	9.2	10.2	Ko	1	..	21395b	94	2325	29.2	+0 50	10.04	10.60	Go	2	..	19340b
45	2883	28.8	-15 0	9.0	10.0	Ko	3	..	21395b	95	2924	29.2	-2 42	8.4	8.9	F8	3	..	21505b
46	2824	28.8	-16 56	9.2	9.5	F2	3	..	41239b	96	2943	29.2	-6 36	9.5	10.6	K2	1	..	22976b
47	2645	28.8	-22 26	5.84	5.84	Ao	..	0,7-	56,127	97	7303	29.2	-25 18	8.7	10.4	K5	2	..	13281b
48	5261	28.8	-47 4	10.5	10.4	G5	1	..	39931b	98	5679	29.2	-38 12	7.03	7.9	Go	7	..	18436b
49	4477	28.8	-50 4	9.4	9.3	Ao	2	..	39931b	99	5235	29.2	-45 19	9.8	9.3	A2	3	..	39931b
50	1413	28.8	-59 36	9.8	9.9	A2	1	..	38748b	100	2537	29.2	-53 49	8.0	9.3	K5	3	..	39868b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

82800

9^h 29^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1089	29.2	-67 45	8.5	8.8	Fo	5	..	40074b	51	5276	29.5	-46 52	9.4	9.0	Ao	4	..	39931b
2	1771	29.3	+28 22	8.3	9.3	Ko	2	..	37741i	52	4489	29.5	-49 15	10.2	9.5	Fo	1	..	39931b
3	2662	29.3	-5 10	9.10	10.10	Ko	1	..	22976b	53	3921	29.5	-51 27	9.6	9.2	Ao	3	..	39868b
4	2664	29.3	-11 14	9.2	9.3	A2	5	..	21395b	54	2494	29.5	-52 23	9.7	9.8	A2	1	..	39868b
5	2931	29.3	-12 26	9.9	10.3	F5	3	..	21395b	55	2544	29.5	-53 36	8.2	9.3	Ma	2	..	39868b
6	2833	29.3	-15 15	8.81	9.88	K2	4	..	21395b	56	2417	29.5	-54 24	7.2	7.4	A2	2	2,8	42951b
7	2717	29.3	-18 28	9.5	9.5	A	1	..	41239b	57	2419	29.5	-54 46	9.8	9.8	Ao	1	..	39868b
8	2718	29.3	-18 33	9.2	9.3	A5	1	..	41239b	58	1025	29.5	-66 17	6.34	7.9	Ko	8	..	40074b
9	2744	29.3	-19 27	8.6	8.5	G5	2	..	41239b	59	519	29.5	-77 49	9.8	10.1	F2	8	..	21453b
10	5301	29.3	-40 18	10.4	9.7	Ao	2	..	39945b	60	359	29.6	+76 41	9.0	9.8	G5	2	..	37714i
11	4485	29.3	-49 34	8.5	8.6	B9	5	0.5	39868b	61	1224	29.6	+57 25	6.88	6.94	A2	8	..	38224i
12	2489	29.3	-52 56	8.4	8.4	B8	4	..	39868b	62	1314	29.6	+54 34	7.81	8.31	F8	5	..	38650i
13	587	29.3	-76 4	9.7	10.8	K2	1	..	21453b	63	1787	29.6	+47 59	9.1	9.9	G5	2	..	38336i
14	507	29.4	+71 4	9.6	10.2	Go	2	..	37706i	64	2007	29.6	+31 31	7.96	8.38	F5	5	..	37741i
15	1736	29.4	+45 39	9.6	10.4	G5	2	..	4904m	65	2117	29.6	+13 6	6.66	6.64	B9	7	..	37610i
16	1881	29.4	+44 19	10.0	11.0	K	1	..	4904m	66	2060	29.6	+11 35	8.9	9.5	G	2	..	37610i
17	1974	29.4	+26 38	7.8	7.8	B9	8	..	37741i	67	2198	29.6	+5 42	8.7	9.7	Ko	3	..	19340b
18	2115	29.4	+13 44	9.2	9.7	F8	2	R	37610i	68	2221	29.6	+2 3	9.9	10.0	A2	1	..	19340b
19	2243	29.4	+8 38	8.1	9.5	Ma	3	..	37610i	69	2216	29.6	-0 57	8.3	9.5	K5	4	..	19340b
20	2197	29.4	+5 25	8.9	9.5	Go	3	..	19340b	70	2840	29.6	-5 28	5.70	6.70	Ko	10	R	22976b
21	2210	29.4	+4 0	8.5	9.0	F8	5	..	19340b	71	2873	29.6	-9 31	8.4	8.4	Ao	7	..	21395b
22	2713	29.4	-3 20	8.2	8.3	A3	4	..	21505b	72	5775	29.6	-36 29	9.1	10.6	K2	1	..	18436b
23	2665	29.4	-11 22	9.9	10.0	A5	2	..	21395b	73	4798	29.6	-48 40	9.4	9.5	A5	2	..	39931b
24	2886	29.4	-14 56	9.9	10.9	Ko	1	..	21395b	74	2548	29.6	-54 1	9.8	9.8	Ao	1	..	39868b
25	2720	29.4	-18 40	9.0	10.1	K2	1	..	41239b	75	2423	29.6	-54 10	8.0	7.7	Ao	5	..	39868b
26	5783	29.4	-35 15	9.44	9.6	F5	2	..	18436b	76	2296	29.6	-57 5	7.2	7.3	Ao	4	..	39868b
27	5680	29.4	-38 56	9.0	9.4	G5	3	..	18436b	77	2112	29.6	-57 15	8.6	9.8	K5	2	..	40105b
28	5386	29.4	-42 31	10.2	10.3	A5	1	..	39945b	78	589	29.6	-77 4	9.6	10.4	G5	2	..	21453b
29	5573	29.4	-44 46	var.	var.	Ao	2	3,7 R	35949b	79	520	29.6	-77 49	9.8	10.1	F2	6	..	21453b
30	5274	29.4	-46 20	9.6	9.3	B	2	..	39931b	80	415	29.6	-79 24	9.4	10.2	G5	5	..	21453b
31	4251	29.4	-50 58	9.6	9.6	A2	2	..	39868b	81	727	29.7	+64 51	8.25	8.75	F8	4	..	37517i
32	2293	29.4	-56 42	9.1	9.3	Ko	2	..	40105b	82	1738	29.7	+45 1	10.3	11.3	Ko	1	..	4904m
33	2110	29.4	-57 31	8.3	7.4	B9	6	..	38748b	83	1882	29.7	+44 21	10.3	10.4	A3	1	..	4904m
34	1455	29.4	-60 48	6.9	7.5	Ao	7	..	40221b	84	1883	29.7	+44 8	10.3	11.1	G5	1	..	4904m
35	1135	29.4	-63 48	7.7	8.0	Fo	8	..	40221b	85	1979	29.7	+36 16	5.48	6.48	Ko	..	..	56,86
36	608	29.4	-73 13	7.8	7.8	Ao	7	..	22988b	86	2026	29.7	+35 12	7.62	8.18	Go	2	E	37345i
37	596	29.4	-74 43	8.8	8.8	Ao	5	..	21453b	87	2326	29.7	+1 39	8.9	9.9	Ko	3	..	19340b
38	588	29.4	-76 8	9.9	10.7	G5	1	..	21453b	88	2327	29.7	+1 6	8.3	9.1	G5	7	..	19340b
39	568	29.5	+70 43	6.84	7.18	F2	8	..	37706i	89	2888	29.7	-13 26	8.6	8.6	Ao	6	..	21395b
40	2021	29.5	+10 8	8.3	8.9	Go	2	..	37610i	90	2888	29.7	-14 36	9.2	9.3	A2	6	..	21395b
41	2531	29.5	-0 3	8.48	9.55	K2	4	..	19340b	91	2722	29.7	-18 18	8.0	8.1	A2	5	..	41239b
42	2925	29.5	-3 3	7.18	7.96	G5	5	..	21505b	92	7311	29.7	-25 57	10.2	10.4	A	1	..	13281b
43	2866	29.5	-10 36	9.5	10.1	Go	3	..	21395b	93	7579	29.7	-29 18	8.2	8.6	A2	7	..	13281b
44	2667	29.5	-11 47	9.2	9.7	F8	3	..	21395b	94	7667	29.7	-30 25	8.1	9.2	Ko	2	0,2	13281b
45	2721	29.5	-18 35	9.2	10.2	Ko	2	..	41239b	95	7407	29.7	-31 32	8.1	8.3	F5	5	..	13047b
46	2941	29.5	-20 38	9.0	10.2	Ko	1	..	41239b	96	6510	29.7	-32 31	8.0	8.6	A2	5	..	13047b
47	2942	29.5	-20 49	9.2	9.9	K2	1	R	41239b	97	5876	29.7	-37 25	10.0	9.6	Ao	2	..	18436b
48	2942	29.5	-20 49	9.2	10.2	K2	1	R	41239b	98	5172	29.7	-41 47	10.0	9.7	Fo	2	..	39945b
49	7400	29.5	-28 21	8.7	9.2	F8	4	..	13281b	99	5393	29.7	-42 9	8.9	9.7	K2	3	..	39945b
50	5574	29.5	-45 4	var.	var.	Mb	4	R	39931b	100	4491	29.7	-49 19	10.0	9.2	Ao	2	..	39931b

THE HENRY DRAPER CATALOGUE.

82900

9h 29m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1253	29.7	-62 21	var.	var.	Md	..	0,8 R	28,203	51	471	30.1	+73 11	6.98	7.06	A3	7	..	37714i
2	1136	29.7	-63 33	8.9	9.2	F2	2	..	40221b	52	..	30.1	+45 21	..	..	G5	1	..	4904m
3	1090	29.7	-68 4	8.6	9.8	K5	1	..	40074b	53	2115	30.1	+14 35	9.2	10.2	Ko	2	..	37610i
4	843	29.7	-71 9	8.8	9.1	F2	2	..	22988b	54	2231	30.1	+2 52	9.2	9.6	F5	2	..	19340b
5	1935	29.8	+43 25	8.7	9.5	G5	4	5,2	4904m	55	2328	30.1	+0 58	9.2	9.7	F8	2	..	19340b
6	2113	29.8	+14 31	8.3	8.3	B9	7	..	37610i	56	..	30.1	+0 28	..	..	F5	2	..	19340b
7	2118	29.8	+13 0	8.7	9.1	F5	1	..	37610i	57	2666	30.1	-4 27	7.44	8.51	K2	6	..	22976b
8	2200	29.8	+5 13	9.2	9.3	A2	4	..	19340b	58	2667	30.1	-4 56	7.14	8.14	Ko	7	..	22976b
9	2199	29.8	+4 51	9.61	10.17	Go	2	..	19340b	59	2876	30.1	-9 34	9.1	9.5	F5	4	..	21395b
10	2664	29.8	-4 43	9.7	10.0	Fo	1	..	22976b	60	2948	30.1	-20 39	8.6	8.7	G5	4	..	41239b
11	7403	29.8	-28 7	9.1	10.1	Ko	1	..	13281b	61	7214	30.1	-26 44	9.7	10.4	Ko	1	..	13281b
12	7582	29.8	-29 28	9.4	9.5	Ao	4	..	13281b	62	5688	30.1	-38 16	10.4	10.3	Go	1	..	18436b
13	7409	29.8	-31 35	8.1	8.6	Ko	3	..	13047b	63	5690	30.1	-38 37	10.7	10.3	Ao	1	..	18436b
14	5877	29.8	-37 21	9.1	10.1	K	1	..	18436b	64	5311	30.1	-40 12	10.0	10.0	A2	2	..	39945b
15	5878	29.8	-37 57	9.4	9.3	Ko	1	..	18436b	65	4502	30.1	-49 19	7.6	8.3	G5	4	..	39931b
16	5024	29.8	-47 28	8.4	9.3	Ko	3	..	39931b	66	3935	30.1	-51 39	9.6	9.5	Go	2	..	39868b
17	5025	29.8	-47 38	10.0	9.6	A2	2	..	39931b	67	..	30.1	-66 9	..	..	Ma	1	..	40074b
18	3927	29.8	-51 53	9.2	9.0	F2	3	..	39868b	68	1027	30.1	-66 53	9.2	9.5	Fo	2	..	40074b
19	2300	29.8	-56 39	7.4	7.2	B5	6	..	39868b	69	1198	30.2	+60 39	6.56	7.34	G5	7	0,8	38224i
20	1414	29.8	-60 5	7.32	7.9	Go	7	..	38748b	70	1246	30.2	+58 58	8.79	9.79	Ko	2	..	38224i
21	1461	29.8	-60 54	10.0	10.1	A2	1	..	40096b	71	2202	30.2	+5 5	8.7	9.7	Ko	4	..	19340b
22	1739	29.9	+45 33	10.0	10.8	G5	1	..	4904m	72	2841	30.2	-5 24	9.2	9.8	Go	4	..	22976b
23	2212	29.9	+4 29	8.5	9.7	K5	4	..	19340b	73	2947	30.2	-6 38	8.8	9.6	G5	3	..	22976b
24	2665	29.9	+4 43	9.5	10.5	Ko	1	..	22976b	74	2672	30.2	-11 39	10.4	11.0	G	1	..	21395b
25	2945	29.9	-7 5	8.4	8.8	F5	6	..	22976b	75	2724	30.2	-18 57	9.2	9.8	G	1	..	41239b
26	2889	29.9	-13 58	10.1	11.3	K5	1	..	21395b	76	2749	30.2	-19 46	9.5	10.0	K2	1	..	41239b
27	2837	29.9	-15 56	7.8	9.2	Ma	3	..	21395b	77	8520	30.2	-23 45	9.2	9.0	Ko	2	5,2	13145b
28	8517	29.9	-24 6	7.6	7.4	A3	6	..	13323b	78	8226	30.2	-24 42	8.3	8.9	G5	3	..	13323b
29	7315	29.9	-26 5	10.4	9.8	Ao	2	..	13281b	79	7322	30.2	-25 28	8.2	9.9	G5	2	..	13281b
30	5790	29.9	-35 42	8.0	7.8	Ao	6	..	18436b	80	6175	30.2	-33 14	9.6	8.9	F5	1	..	13047b
31	3929	29.9	-51 42	9.6	9.6	K5	1	..	39868b	81	6174	30.2	-33 17	8.4	8.7	Fo	4	..	13047b
32	2508	29.9	-52 24	8.0	8.0	Ao	6	..	39868b	82	5786	30.2	-36 23	7.65	8.7	K2	3	..	18436b
33	2512	29.9	-53 1	9.0	9.0	B8	2	..	39868b	83	5884	30.2	-37 39	8.7	8.8	A3	4	..	18436b
34	1570	29.9	-58 55	8.9	9.9	K2	2	..	38748b	84	4802	30.2	-48 34	5.35	5.18	B3	..	5,7	28,203
35	1113	29.9	-66 6	9.2	9.5	Fo	2	..	40074b	85	4803	30.2	-48 43	8.9	9.2	Go	2	..	39931b
36	1091	29.9	-67 54	8.8	10.0	K5	1	..	40074b	86	4504	30.2	-49 17	7.8	8.6	G5	3	..	39931b
37	844	29.9	-71 20	8.7	9.7	Ko	1	..	22988b	87	2120	30.2	-57 27	7.3	8.6	Ma	3	..	38748b
38	1200	30.0	+58 33	9.3	10.1	G5	2	..	38224i	88	2122	30.2	-57 31	6.9	6.5	B9	8	..	38748b
39	2052	30.0	+38 0	8.3	9.1	G5	3	..	38241i	89	1042	30.2	-65 3	8.44	8.8	A5	2	..	40221b
40	1879	30.0	+29 53	8.81	9.59	G5	1	..	37741i	90	..	30.2	-66 10	..	..	Ma	1	0,1	40096b
41	2842	30.0	-7 45	9.5	9.8	Fo	2	..	22976b	91	295	30.3	+80 34	8.8	9.2	F5	3	..	37493i
42	2869	30.0	-10 56	9.9	10.9	Ko	2	..	21395b	92	526	30.3	+69 45	8.04	8.32	Fo	5	..	37706i
43	2670	30.0	-11 41	6.73	7.29	Go	10	..	21395b	93	1773	30.3	+28 5	9.5	9.6	A5	1	..	37741i
44	2668	30.0	-12 10	8.6	8.6	Ao	6	..	21395b	94	2213	30.3	+4 21	7.9	8.5	Go	8	..	19340b
45	2889	30.0	-15 0	10.6	10.9	Fo	1	..	21395b	95	2232	30.3	+3 4	9.2	9.3	A5	3	..	19340b
46	2847	30.0	-22 4	9.0	9.3	Ko	2	..	13145b	96	2281	30.3	-1 42	8.7	9.8	K2	2	E	19340b
47	6722	30.0	-27 45	8.3	10.4	Ko	1	..	13281b	97	2928	30.3	-2 49	8.4	8.5	A5	3	..	21505b
48	7585	30.0	-29 28	9.2	9.2	Ao	2	..	13281b	98	2838	30.3	-15 34	9.2	10.3	K2	1	..	21395b
49	5782	30.0	-36 42	9.4	9.9	Go	1	..	18436b	99	7218	30.3	-26 38	9.1	9.8	F5	3	..	13281b
50	2431	30.0	-54 49	9.5	9.5	Ao	2	..	39868b	100	5316	30.3	-40 37	8.0	9.7	Ma	2	..	39945b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

83000

9h 30m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	° ' "									m.	° ' "						
1	5402	30.3	-42 11	9.4	10.3	K2	1	..	39945b	51	2654	30.7	-22 35	8.8	9.3	G5	2	..	13145b
2	2520	30.3	-52 54	9.1	8.7	B8	3	..	39868b	52	2656	30.7	-23 0	9.1	9.0	Go	2	2,2	13323b
3	316	30.4	+79 16	8.02	8.16	A5	5	..	37493i	53	8529	30.7	-23 24	9.1	8.4	Go	2	..	13323b
4	2116	30.4	+23 38	7.50	8.50	Ko	5	..	38046i	54	5790	30.7	-36 49	8.7	8.8	Go	3	..	18436b
5	2340	30.4	+20 29	7.19	8.19	Ko	7	..	37608i	55	5788	30.7	-36 50	8.8	9.0	Go	3	..	18436b
6	2026	30.4	+10 19	8.5	9.0	F8	2	..	37610i	56	4806	30.7	-48 51	9.6	9.8	Go	1	..	39931b
7	2843	30.4	-6 2	9.2	9.8	Go	3	..	22976b	57	4511	30.7	-49 48	10.2	9.3	Ao	1	..	39931b
8	2880	30.4	-9 52	9.5	10.5	Ko	2	..	21395b	58	4270	30.7	-50 49	5.16	4.99	B3	..	0,7 R	56,127
9	2673	30.4	-11 46	10.1	10.7	G	1	..	21395b	59	2535	30.7	-52 37	9.6	9.6	Ao	1	..	39868b
10	7594	30.4	-29 39	8.7	9.6	F2	2	..	13281b	60	2319	30.7	-56 43	8.4	8.9	B5	3	..	40105b
11	5787	30.4	-36 59	8.4	8.4	Ao	5	..	18436b	61	2128	30.7	-57 16	8.6	9.2	Ao	3	0,1	38748b
12	5693	30.4	-38 57	9.0	9.4	F5	3	..	18436b	62	1114	30.7	-65 52	9.1	9.5	F5	2	..	40074b
13	5318	30.4	-40 32	9.3	9.4	Go	2	..	39945b	63	913	30.7	-70 55	8.7	9.7	Ko	1	..	40074b
14	5317	30.4	-40 59	9.6	9.4	Ao	4	..	39945b	64	602	30.7	-74 20	8.0	8.5	F8	7	..	21453b
15	5183	30.4	-41 21	8.4	9.7	K2	2	..	39945b	65	213	30.8	+84 14	8.5	9.5	Ko	2	..	37546i
16	5589	30.4	-44 20	9.4	8.7	A3	3	..	39945b	66	1853	30.8	+49 44	8.32	8.74	F5	4	0,3	38336i
17	1043	30.4	-64 56	7.90	9.2	K5	3	..	40221b	67	1982	30.8	+36 3	7.20	7.62	F5	5	..	38241i
18	1078	30.4	-69 30	8.6	9.8	K5	2	..	40074b	68	1903	30.8	+32 34	8.7	9.5	G5	2	..	37741i
19	1079	30.4	-70 2	7.08	7.0	B8	8	..	22988b	69	2011	30.8	+31 37	5.74	7.09	Ma	8	..	37741i
20	577	30.5	+68 27	9.0	9.8	G5	1	..	37517i	70	2108	30.8	+17 41	8.1	9.1	Ko	3	..	37613i
21	728	30.5	+65 34	9.0	10.0	Ko	2	..	38654i	71	2119	30.8	+13 8	9.2	10.0	G5	1	..	37610i
22	1937	30.5	+43 40	9.6	10.2	G	1	..	4904m	72	2329	30.8	+1 43	8.9	9.7	G5	1	..	19340b
23	2077	30.5	+14 49	6.21	6.21	Ao	10	0,9	37610i	73	2220	30.8	-0 49	8.9	9.9	Ko	4	..	19340b
24	2233	30.5	+3 5	8.5	9.5	Ko	5	..	19340b	74	2894	30.8	-14 22	9.7	10.5	G5	2	..	21395b
25	2532	30.5	+0 3	9.2	10.3	K2	5	..	19340b	75	2841	30.8	-15 38	9.0	10.0	Ko	3	..	21395b
26	6727	30.5	-27 56	9.2	8.9	F5	3	..	13281b	76	2659	30.8	-22 45	8.8	9.3	Fo	3	5,2	13145b
27	5694	30.5	-39 0	8.7	8.5	A2	6	..	18436b	77	7599	30.8	-29 59	9.4	9.6	Ao	2	..	13281b
28	5639	30.5	-39 38	9.3	9.7	G5	2	..	39945b	78	6183	30.8	-33 56	7.24	7.2	B9	8	..	13047b
29	5638	30.5	-40 2	7.84	8.3	F8	6	..	39945b	79	5035	30.8	-47 47	10.2	10.1	A2	1	..	39931b
30	2566	30.5	-53 36	7.9	9.3	Ma	3	..	39868b	80	4271	30.8	-50 10	8.70	8.9	Ao	5	..	39868b
31	2313	30.5	-57 2	9.5	9.5	Ao	2	..	40105b	81	1572	30.8	-59 0	9.9	9.9	A	1	..	38748b
32	2126	30.5	-57 57	8.1	8.0	B9	6	..	38748b	82	1293	30.8	-61 32	9.6	9.6	B9	2	..	40096b
33	609	30.5	-73 43	8.1	8.4	Fo	5	..	22988b	83	2232	30.9	+19 21	8.7	9.5	G5	3	..	37608i
34	280	30.6	+82 3	8.7	9.7	Ko	2	..	37493i	84	2067	30.9	+11 53	7.9	8.7	G5	2	..	37610i
35	360	30.6	+75 53	7.52	8.52	Ko	5	..	37714i	85	2204	30.9	+4 58	7.71	8.78	K2	7	..	19340b
36	1981	30.6	+36 9	8.1	8.1	Ao	5	..	38241i	86	2674	30.9	-11 30	7.8	8.8	Ko	6	..	21395b
37	1774	30.6	+28 47	9.5	10.1	G	1	..	37741i	87	2658	30.9	-22 14	7.03	8.2	Ko	5	..	13323b
38	2950	30.6	-6 21	9.2	9.7	F8	2	..	22976b	88	7686	30.9	-31 0	9.7	9.8	K2	2	3,2	13281b
39	2839	30.6	-15 50	9.5	10.7	K5	1	..	21395b	89	5190	30.9	-41 39	10.7	10.2	A3	1	..	39945b
40	7229	30.6	-26 55	9.4	9.8	A5	2	..	13281b	90	5596	30.9	-44 23	7.1	7.5	B9	3	..	35949b
41	7417	30.6	-28 26	8.5	8.9	Ao	5	..	13281b	91	4807	30.9	-48 54	9.8	9.5	G	1	..	39931b
42	5321	30.6	-40 42	9.6	9.7	Ao	1	..	39945b	92	2445	30.9	-54 9	9.6	10.4	G5	1	..	39868b
43	2571	30.6	-53 12	8.4	8.0	Bo	3	..	39868b	93	847	30.9	-72 2	8.0	7.8	B3	5	..	22988b
44	603	30.6	-74 51	9.0	10.1	K2	2	..	21453b	94	836	30.9	-72 11	9.4	9.4	Ao	2	..	40074b
45	2223	30.7	+2 7	9.9	10.3	F5	1	..	19340b	95	835	30.9	-72 39	5.52	7.4	K2	8	R	22988b
46	2533	30.7	+0 39	7.69	8.69	Ko	3	..	21505b	96	611	30.9	-73 19	7.2	7.5	Fo	8	..	22988b
47	2843	30.7	-8 9	8.0	8.3	Fo	7	E	21395b	97	612	30.9	-73 43	8.1	8.4	F2	3	..	22988b
48	2893	30.7	-14 15	var.	var.	Md	..	R	56,201	98	1780	31.0	+28 13	7.07	8.07	Ko	6	..	37741i
49	2840	30.7	-16 2	9.2	9.6	F5	2	..	21395b	99	2063	31.0	+11 1	8.5	8.8	F2	2	..	37610i
50	2726	30.7	-19 7	9.0	9.3	Fo	3	..	41239b	100	2210	31.0	+9 15	9.2	9.2	A	2	..	37610i

THE HENRY DRAPER CATALOGUE.

83100

9^h 31^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2221	31.0	- 1 10	9.0	9.8	G5	4	..	1934ob	51	5704	31.3	-38 27	7.8	9.4	K2	3	..	18436b
2	2670	31.0	- 4 56	9.5	9.8	F2	3	..	22976b	52	5304	31.3	-46 35	8.2	8.7	Fo	4	..	39931b
3	2675	31.0	-11 14	9.7	10.7	Ko	1	..	21395b	53	4276	31.3	-50 7	8.44	8.3	B5	7	..	39868b
4	2728	31.0	-19 8	6.25	6.8	Ao	9	..	41239b	54	2592	31.3	-53 38	9.0	9.0	Ao	3	..	39868b
5	2952	31.0	-20 34	9.2	9.3	Go	3	..	41239b	55	2448	31.3	-54 56	7.6	9.2	Ko	3	..	39868b
6	7334	31.0	-25 38	9.5	10.4	Ko	1	..	13281b	56	2330	31.3	-56 24	8.6	8.9	A2	3	..	39868b
7	7425	31.0	-31 59	9.4	9.5	K2	2	..	22915b	57	2139	31.3	-57 59	8.9	8.9	B8	3	..	38748b
8	5803	31.0	-35 23	6.48	7.4	F5	8	..	18436b	58	1528	31.4	+46 22	7.9	8.3	F5	4	3,6	38336i
9	5894	31.0	-37 39	8.4	9.1	Ko	2	..	18436b	59	2237	31.4	+ 3 2	10.6	11.1	F8	1	..	1934ob
10	5191	31.0	-41 41	8.8	10.2	Ko	2	..	39945b	60	2535	31.4	+ 0 2	9.9	10.3	F5	5	..	1934ob
11	1464	31.0	-60 11	7.06	8.4	Ko	6	..	40221b	61	2934	31.4	- 2 20	7.08	8.08	Ko	6	..	21505b
12	1094	31.0	-67 12	8.2	8.5	F2	5	..	40074b	62	2677	31.4	-12 1	10.4	10.5	A2	2	..	21395b
13	522	31.0	-78 7	9.6	10.6	Ko	2	..	21453b	63	2943	31.4	-12 26	9.2	10.2	Ko	3	..	21395b
14	..	31.1	+78 18	var.	var.	Md	1	R	37493i	64	2836	31.4	-16 48	8.4	8.7	F2	4	..	41239b
15	1202	31.1	+57 52	8.9	9.9	Ko	1	..	38224i	65	2753	31.4	-20 7	8.73	10.0	K5	1	..	41239b
16	1741	31.1	+45 32	9.3	10.3	Ko	2	..	4904m	66	5650	31.4	-39 25	9.0	9.4	G5	3	..	39945b
17	1938	31.1	+43 32	8.9	9.0	A5	3	2,2	4904m	67	5336	31.4	-41 2	8.4	8.3	A2	5	R	39945b
18	2064	31.1	+11 18	7.6	7.6	Ao	5	..	3761oi	68	5308	31.4	-46 58	10.0	10.1	A2	2	..	39931b
19	2224	31.1	+ 1 55	9.9	10.7	G5	1	..	1934ob	69	4815	31.4	-48 27	7.7	8.3	Fo	6	..	39931b
20	2671	31.1	- 4 58	9.7	10.7	Ko	2	..	22976b	70	3953	31.4	-51 35	7.8	8.1	Fo	8	..	39868b
21	2873	31.1	-10 24	9.2	10.0	G5	3	..	21395b	71	3954	31.4	-51 43	9.1	9.5	K2	2	..	39868b
22	7240	31.1	-26 15	10.2	11.0	Ko	1	..	13281b	72	216	31.5	+84 12	8.9	9.2	F2	3	..	37546i
23	5601	31.1	-44 47	8.6	9.0	Ko	3	..	39945b	73	1789	31.5	+48 1	7.8	8.3	F8	3	..	38336i
24	962	31.1	-68 8	8.7	8.8	A2	4	..	40074b	74	1886	31.5	+44 39	8.52	9.70	K5	4	3,1	4904m
25	914	31.1	-70 58	8.4	9.4	Ko	2	..	40074b	75	2944	31.5	-13 7	8.8	9.1	Fo	4	..	21395b
26	602	31.2	+67 43	6.28	7.46	K5	8	..	37517i	76	2893	31.5	-14 2	9.2	10.3	K2	2	..	21395b
27	1788	31.2	+48 27	8.5	9.1	Go	2	..	38336i	77	2897	31.5	-14 22	8.6	8.7	A5	6	..	21395b
28	2054	31.2	+38 21	8.9	9.2	F2	2	..	38241i	78	7341	31.5	-25 28	8.5	9.9	Ma	2	..	13281b
29	2952	31.2	- 6 58	9.2	9.5	F2	4	..	22976b	79	5707	31.5	-38 24	9.6	10.0	K2	1	..	18436b
30	..	31.2	-11 26	..	..	G	1	..	21395b	80	5651	31.5	-39 46	8.5	8.9	F8	3	..	39945b
31	2895	31.2	-14 37	8.7	9.8	K2	4	..	21395b	81	5607	31.5	-44 11	9.6	9.3	Ao	2	..	39945b
32	2854	31.2	-21 30	8.2	8.7	Ko	2	..	41239b	82	4278	31.5	-50 9	9.14	9.6	Ko	1	..	39868b
33	7691	31.2	-30 19	9.4	10.1	G5	1	..	13281b	83	1576	31.5	-58 47	4.20	4.08	B5	..	R	28,203
34	5333	31.2	-40 58	9.3	10.0	K5	1	..	39945b	84	1296	31.5	-62 1	8.53	9.9	K5	3	..	40221b
35	4514	31.2	-49 58	8.90	8.9	Ao	5	..	39868b	85	346	31.5	-81 16	8.63	8.7	A2	5	0,3	20869b
36	2555	31.2	-52 19	9.4	9.5	A2	1	..	39868b	86	465	31.6	+72 12	7.8	8.2	F5	5	..	37714i
37	2136	31.2	-57 25	9.5	9.5	Ao	2	..	38748b	87	2014	31.6	+31 26	8.1	8.9	G5	3	..	37741i
38	1256	31.2	-62 47	8.0	9.2	K5	3	..	40221b	88	2111	31.6	+22 23	8.6	8.6	Ao	4	..	38046i
39	1257	31.2	-63 2	8.1	8.2	A3	7	..	40221b	89	2109	31.6	+16 54	5.92	6.92	Ko	8	0,8	37613i
40	315	31.3	+78 0	8.3	8.6	F2	5	..	37714i	90	1997	31.6	+16 42	7.7	8.2	F8	3	..	37608i
41	570	31.3	+70 45	9.0	9.8	G5	2	..	37706i	91	2206	31.6	+ 5 24	8.5	9.7	K5	3	..	1934ob
42	1855	31.3	+49 27	8.9	9.3	F5	2	..	38336i	92	2218	31.6	+ 4 44	9.9	10.4	F8	2	..	1934ob
43	1742	31.3	+44 52	8.62	9.69	K2	4	3,1	4904m	93	2238	31.6	+ 3 32	9.2	9.7	F8	4	..	1934ob
44	2012	31.3	+31 42	9.2	9.5	F	1	..	37741i	94	2719	31.6	- 9 6	9.5	10.1	Go	1	..	21395b
45	2120	31.3	+23 29	7.04	7.04	Ao	7	..	37608i	95	2904	31.6	-18 12	8.4	8.5	A2	5	..	41239b
46	2108	31.3	+22 42	7.90	8.90	Ko	4	..	37608i	96	7251	31.6	-27 5	7.50	7.8	Ao	8	..	13281b
47	2159	31.3	+ 7 34	8.0	8.6	Go	3	..	9643b	97	7439	31.6	-28 58	8.3	10.4	Ko	1	..	13281b
48	2205	31.3	+ 5 30	8.5	8.9	F5	3	..	1934ob	98	7434	31.6	-31 17	10.9	9.5	Ao	2	..	13047b
49	8247	31.3	-24 24	9.5	9.5	Ao	2	..	13323b	99	5653	31.6	-39 27	9.1	10.5	Mc	2	..	39945b
50	5805	31.3	-35 22	10.4	9.4	A3	2	..	18436b	100	5340	31.6	-40 16	9.1	9.4	A5	2	..	39945b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

83200

9^h 31^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3956	31.6	-51 28	9.1	9.2	F5	4	..	39868b	51	1421	31.9	-59 20	9.6	9.6	Ao	1	..	38748b
2	2317	31.6	-56 3	8.1	9.0	Ko	3	..	40105b	52	964	31.9	-68 45	9.3	10.3	Ko	1	..	21452b
3	590	31.6	-75 16	9.53	9.3	A2	4	..	21453b	53	1085	31.9	-69 15	8.8	8.8	Ao	4	..	40074b
4	523	31.6	-77 10	9.0	9.1	A3	5	..	21453b	54	838	31.9	-72 14	8.0	8.0	Ao	5	..	22988b
5	1249	31.7	+58 59	7.52	8.87	Ma	4	..	38224i	55	571	32.0	+70 4	9.3	9.9	G	1	R	37706i
6	1665	31.7	+50 20	8.1	8.1	B9	4	..	38650i	56	2878	32.0	-10 41	8.5	8.8	F2	5	..	21395b
7	1744	31.7	+45 24	9.1	9.9	G5	2	..	4904m	57	2899	32.0	-14 12	9.5	9.8	F2	4	..	21395b
8	2009	31.7	+37 4	9.1	10.1	Ko	1	..	38241i	58	2733	32.0	-18 33	9.7	9.8	A5	1	..	41239b
9	2874	31.7	-10 50	7.58	7.58	Ao	8	..	21395b	59	2861	32.0	-21 59	8.6	9.3	Ko	1	..	13323b
10	2946	31.7	-12 47	9.2	9.3	A2	4	..	21395b	60	8550	32.0	-23 47	9.1	9.0	Go	3	5,3	13281b
11	2838	31.7	-16 56	8.7	9.9	K5	1	..	41239b	61	8263	32.0	-24 16	6.52	7.5	F2	3	0,8	7734b
12	2955	31.7	-20 27	8.0	9.0	Ko	3	..	41239b	62	7262	32.0	-26 53	8.11	8.9	Ko	3	..	13281b
13	2859	31.7	-21 33	7.33	7.7	A3	7	..	41239b	63	7447	32.0	-28 32	10.4	9.9	A	1	..	13281b
14	7343	31.7	-25 31	8.1	8.9	K5	5	..	13281b	64	5818	32.0	-35 35	8.4	8.1	Ao	5	..	18436b
15	5428	31.7	-43 26	10.0	9.3	A2	2	..	39945b	65	5319	32.0	-46 21	9.6	9.3	A3	3	..	39931b
16	5270	31.7	-45 40	7.9	9.0	K2	3	..	39931b	66	5048	32.0	-48 4	8.4	8.1	Ao	4	..	39931b
17	5271	31.7	-46 6	10.2	9.6	Ao	3	..	39931b	67	2611	32.0	-53 50	9.2	9.2	B8	2	..	39868b
18	5045	31.7	-47 21	9.6	9.6	F5	1	..	39931b	68	1579	32.0	-58 36	9.4	9.4	Ao	3	..	38748b
19	5044	31.7	-47 38	8.0	8.1	Ao	6	..	39931b	69	1297	32.0	-61 50	10.2	10.2	A	1	..	40096b
20	4818	31.7	-48 41	8.4	8.6	Fo	3	..	39931b	70	528	32.1	+69 0	8.1	8.4	F2	8	R	37706i
21	1084	31.7	-69 9	8.9	8.9	Ao	3	..	40074b	71	1666	32.1	+69 0	8.1	8.9	A2	8	..	38650i
22	1083	31.7	-69 18	8.8	8.9	A2	3	..	40074b	72	2127	32.1	+25 8	6.60	7.10	G5	4	..	37741i
23	215	31.8	+84 48	8.88	9.44	G	2	..	37546i	73	2331	32.1	+1 11	9.0	9.3	F8	8	3,8	1934ob
24	2126	31.8	+24 51	9.01	9.57	Go	2	..	38646i	74	2284	32.1	-1 28	8.9	9.4	Fo	4	..	1934ob
25	2083	31.8	+15 41	7.95	8.29	F2	4	0,4	37610i	75	2847	32.1	-7 31	9.7	10.7	F8	3	..	22976b
26	2846	31.8	-8 10	8.2	9.2	Ko	5	E	21395b	76	6758	32.1	-27 32	7.7	8.0	K	1	..	13281b
27	2876	31.8	-10 21	9.36	10.14	G5	2	..	21395b	77	6757	32.1	-27 39	8.9	10.4	A2	6	..	13281b
28	2895	31.8	-13 59	9.7	10.0	F2	3	..	21395b	78	7448	32.1	-28 52	8.2	9.5	Ko	1	..	13281b
29	2896	31.8	-14 2	9.9	10.5	Go	1	..	21395b	79	4824	32.1	-48 29	8.6	8.4	F8	3	..	13281b
30	2956	31.8	-21 1	8.2	8.1	A2	6	..	41239b	80	4527	32.1	-49 47	9.4	9.2	B9	5	..	39931b
31	7704	31.8	-30 47	7.9	7.6	A3	7	R	13047b	81	2340	32.1	-56 32	9.4	10.4	B5	1	..	39931b
32	4821	31.8	-48 34	9.0	8.7	G	7	..	39931b	82	850	32.1	-71 42	8.3	8.3	Ko	1	..	40105b
33	2460	31.8	-54 10	9.0	9.8	A2	3	..	39868b	83	217	32.2	+84 10	8.9	9.9	Ao	4	..	22988b
34	1578	31.8	-58 9	8.6	9.0	K2	2	..	38748b	84	1206	32.2	+58 19	8.8	9.8	Ko	1	..	37546i
35	418	31.8	-79 14	10.0	10.4	A2	4	..	21453b	85	1687	32.2	+46 53	8.6	9.6	Ko	3	..	38224i
36	347	31.8	-81 24	8.17	9.7	F5	2	..	20869b	86	2232	32.2	+40 42	5.24	5.38	Ko	3	2,1	4904m
37	1080	31.9	+62 33	8.9	9.7	K5	3	0,2	37517i	87	2110	32.2	+24 30	8.5	8.9	A5	..	5,10	56,86
38	1529	31.9	+46 23	9.0	9.6	G5	2	..	4904m	88	2000	32.2	+15 54	8.7	9.2	F5	3	..	38646i
39	2160	31.9	+7 17	5.14	6.14	Go	3	5,1	37610i	89	2227	32.2	+2 20	7.9	8.5	F8	2	E	37608i
40	2956	31.9	-6 36	8.4	9.4	Ko	10	..	22976b	90	2332	32.2	+1 24	8.9	9.3	Go	6	..	1934ob
41	2721	31.9	-9 0	9.2	10.2	Ko	4	..	21395b	91	6204	32.2	-33 10	8.4	9.2	F5	3	..	1934ob
42	2885	31.9	-9 13	9.5	9.6	Ko	1	..	21395b	92	5820	32.2	-35 52	7.48	8.2	K2	1	..	13047b
43	2877	31.9	-11 9	9.2	9.3	A2	2	..	21395b	93	5722	32.2	-38 34	10.4	10.0	G5	5	..	18436b
44	7442	31.9	-28 36	8.9	10.1	A2	4	..	13281b	94	5437	32.2	-43 54	9.1	9.6	Ao	1	..	18436b
45	5815	31.9	-35 51	10.4	9.4	F8	1	..	18436b	95	4825	32.2	-48 56	9.6	9.5	Ao	2	..	39945b
46	5433	31.9	-43 45	7.6	7.8	Ao	3	..	35949b	96	1137	32.2	-63 35	6.9	6.9	A5	2	..	39931b
47	5274	31.9	-45 38	9.2	9.3	Ao	3	..	39931b	97	965	32.2	-68 9	9.7	9.7	B8	9	..	40221b
48	4822	31.9	-48 35	10.2	9.2	A2	2	..	39931b	98	1136	32.2	+61 9	8.7	9.7	A	2	..	21452b
49	4526	31.9	-49 45	9.2	9.3	Ao	2	..	39931b	99	1408	32.3	+52 47	8.1	8.7	Ko	3	..	38224i
50										100						Go	3	..	38650i

THE HENRY DRAPER CATALOGUE.

83300

9^h 32^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2070	32.3	+12 20	9.2	9.8	Go	1	..	3761oi	51	2018	32.7	+31 13	8.7	9.0	Fo	4	..	37741i
2	2219	32.3	+ 4 1	9.2	9.5	F	2	..	1934ob	52	2939	32.7	- 2 43	6.56	7.56	Ko	8	..	21505b
3	2220	32.3	+ 3 56	8.9	9.2	Fo	4	..	1934ob	53	2910	32.7	-17 59	8.8	8.8	Ao	4	..	41239b
4	2240	32.3	+ 2 59	9.6	10.2	Go	1	..	1934ob	54	5825	32.7	-35 41	10.0	9.4	Ao	3	..	18436b
5	2728	32.3	- 3 38	8.4	9.0	Go	3	..	21505b	55	5816	32.7	-36 24	9.1	9.6	Go	1	..	18436b
6	2901	32.3	-13 23	9.5	9.6	A3	3	..	21395b	56	5208	32.7	-41 39	9.3	9.7	F8	3	..	39945b
7	8554	32.3	-24 3	9.9	9.3	F5	2	3,2	13145b	57	5332	32.7	-46 20	9.4	9.6	A3	3	..	39931b
8	5355	32.3	-40 37	9.3	9.4	Fo	2	..	39945b	58	3977	32.7	-51 18	8.4	8.6	Ao	7	..	39868b
9	5202	32.3	-41 25	9.4	10.0	A3	2	..	39945b	59	1045	32.7	-64 33	7.6	8.0	F5	5	..	40221b
10	5442	32.3	-43 28	9.1	9.0	G5	1	..	39945b	60	421	32.7	-79 52	10.6	10.6	A	1	..	21453b
11	5276	32.3	-45 38	8.6	9.3	F8	3	..	39931b	61	1081	32.8	+62 24	8.3	8.4	A5	4	3,3	37517i
12	1115	32.3	-65 41	7.2	7.2	B8	7	..	40221b	62	2128	32.8	+13 10	6.80	7.58	G5	6	..	3761oi
13	1251	32.4	+59 19	8.3	8.8	F8	3	..	38224i	63	2536	32.8	+ 0 7	7.9	8.0	A2	4	..	21505b
14	2681	32.4	-11 46	8.7	9.1	F5	5	..	21395b	64	2854	32.8	- 5 43	8.6	9.1	F8	5	..	22976b
15	2948	32.4	-12 14	9.5	10.5	Ko	1	..	21395b	65	7455	32.8	-31 27	9.7	8.9	G5	2	..	13047b
16	2903	32.4	-13 13	8.6	8.9	F2	5	..	21395b	66	5820	32.8	-36 35	8.7	9.4	F8	2	..	18436b
17	7269	32.4	-26 25	7.78	9.0	K2	4	..	13281b	67	5669	32.8	-40 5	9.34	10.0	Ko	1	..	39945b
18	7446	32.4	-31 48	9.1	9.2	Ao	3	..	13047b	68	4831	32.8	-48 18	6.48	7.2	Fop	..	0,8 R	28,203
19	5205	32.4	-41 46	9.4	9.7	F5	2	..	39945b	69	2599	32.8	-52 46	8.1	8.1	B9	5	..	39868b
20	5326	32.4	-47 1	9.8	9.9	A2	2	..	39931b	70	1137	32.9	+60 57	8.8	9.3	F8	3	..	38224i
21	4530	32.4	-49 23	9.8	9.5	A2	1	..	39931b	71	1943	32.9	+43 36	6.63	7.63	Ko	7	0,7	37459i
22	2590	32.4	-52 40	8.6	8.9	B9	4	..	39868b	72	1885	32.9	+30 19	8.8	9.1	F2	2	..	37741i
23	526	32.4	-77 36	9.5	10.6	K2	1	..	21453b	73	2725	32.9	- 8 59	6.38	6.38	Ao	9	..	22976b
24	420	32.4	-79 31	9.3	10.4	K2	4	..	21453b	74	2951	32.9	-12 51	8.6	9.4	G5	4	..	21395b
25	1342	32.5	+55 18	9.0	9.1	A3	2	..	38224i	75	2844	32.9	-15 15	7.61	8.61	Ko	7	..	21395b
26	2232	32.5	+17 49	7.8	8.8	Ko	3	..	37608i	76	2843	32.9	-16 38	9.0	9.8	G5	2	..	41239b
27	2114	32.5	+17 18	7.9	8.7	G5	4	..	37608i	77	6771	32.9	-28 5	8.5	8.7	A5	6	..	13281b
28	2228	32.5	+ 2 15	10.6	11.4	G5	1	..	1934ob	78	7460	32.9	-28 57	8.9	8.7	Ao	4	..	13281b
29	2229	32.5	+ 2 9	7.02	7.80	G5	10	..	1934ob	79	7637	32.9	-29 46	7.48	7.9	A2	8	..	13281b
30	2961	32.5	-20 57	8.0	8.4	Ao	5	..	41239b	80	7458	32.9	-31 44	5.63	7.7	Ko	..	0,9	56,127
31	8273	32.5	-24 47	9.4	9.2	F2	3	R	13281b	81	5830	32.9	-35 57	9.4	9.3	Ao	3	..	18436b
32	8272	32.5	-24 51	5.94	6.8	Ko	..	0,8-	56,127	82	5821	32.9	-37 0	9.4	9.9	Go	1	..	18436b
33	7716	32.5	-30 49	9.1	9.5	Ao	2	..	13281b	83	5364	32.9	-40 8	10.0	10.0	Ao	1	..	39945b
34	6563	32.5	-32 53	8.4	7.6	Ao	4	..	13047b	84	5441	32.9	-42 23	10.0	10.0	Ao	2	..	39945b
35	2616	32.5	-53 44	7.6	8.1	B8	5	..	39868b	85	5285	32.9	-45 54	8.5	9.0	Go	4	..	39931b
36	1580	32.5	-58 46	8.6	10.2	K5	2	..	38748b	86	5063	32.9	-47 35	9.2	9.3	F8	2	..	39931b
37	1466	32.5	-60 19	8.4	8.8	Ao	4	..	40221b	87	4299	32.9	-51 4	7.4	8.0	Fo	8	..	39868b
38	1116	32.5	-65 18	9.6	10.0	F5	1	..	40074b	88	3979	32.9	-52 6	7.9	9.0	Ma	3	..	39868b
39	263	32.6	+83 47	7.89	8.17	Fo	5	..	37546i	89	1583	32.9	-59 2	9.0	9.4	Ao	3	..	38748b
40	1785	32.6	+28 28	7.9	8.5	Go	4	..	37741i	90	1302	32.9	-61 18	8.8	9.4	G5	2	..	40221b
41	1985	32.6	+25 48	8.1	8.9	G5	2	..	38646i	91	1303	32.9	-62 1	8.43	10.2	K5	2	..	40221b
42	2111	32.6	+24 0	7.9	8.3	F5	4	..	37608i	92	918	32.9	-70 29	9.0	9.1	A2	2	..	22988b
43	2087	32.6	+14 48	6.60	6.94	F2	7	3,8	3761oi	93	359	32.9	-80 47	8.02	8.5	Fo	6	5,4	20869b
44	2904	32.6	-14 24	8.0	8.1	A2	8	..	21395b	94	1316	33.0	+53 57	7.40	8.40	Ko	6	0,4	38650i
45	7356	32.6	-25 39	8.5	9.0	G5	4	..	13281b	95	1887	33.0	+30 36	8.02	8.58	Go	4	..	37741i
46	5281	32.6	-46 5	9.4	9.6	Go	2	..	39931b	96	2126	33.0	+23 31	7.9	8.3	F5	4	..	38046i
47	2477	32.6	-54 14	10.1	10.1	Ao	2	..	39868b	97	2127	33.0	+22 57	9.5	10.5	Ko	1	..	38646i
48	1425	32.6	-59 26	8.9	9.9	Ko	1	..	38748b	98	2068	33.0	+21 36	8.2	8.6	F5	2	..	38046i
49	530	32.7	+69 46	9.19	9.75	G	1	..	37706i	99	7725	33.0	-30 32	7.02	8.3	Ko	5	..	13047b
50	1942	32.7	+43 9	8.9	9.4	F8	2	..	38336i	100	5924	33.0	-37 50	8.7	8.8	F8	3	..	18436b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

83400

9^h 33^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5925	33.0	-37 57	9.4	9.4	Fo	2	..	18436b	51	2033	33.4	+35 41	7.20	7.62	F5	6	..	38241i
2	966	33.0	-68 51	9.2	10.2	Ko	2	..	21452b	52	2071	33.4	+11 14	7.6	7.7	A3	7	..	37610i
3	1944	33.1	+43 24	8.37	9.37	Ko	2	..	38336i	53	2733	33.4	-3 24	7.14	8.14	Ko	3	..	21505b
4	2128	33.1	+23 25	9.1	9.2	A2	3	..	38046i	54	2953	33.4	-13 4	9.2	10.2	Ko	2	..	21395b
5	2112	33.1	+22 0	7.7	8.7	Ko	2	..	37608i	55	2845	33.4	-16 16	9.2	10.6	Ma	1	..	41239b
6	2249	33.1	+8 10	7.6	7.7	A2	4	..	37610i	56	2846	33.4	-16 52	8.8	9.4	Go	2	..	41239b
7	2222	33.1	+4 3	9.9	11.0	K2	1	..	19340b	57	2916	33.4	-18 10	9.5	9.6	A5	2	..	41239b
8	2230	33.1	+2 17	8.1	8.6	F8	8	..	19340b	58	7366	33.4	-25 29	8.3	9.6	Ko	2	..	13281b
9	2229	33.1	-1 2	8.5	8.5	Ao	4	..	21505b	59	7728	33.4	-30 14	7.82	8.9	Ko	2	..	13047b
10	2959	33.1	-7 10	9.5	10.0	F8	3	..	19137b	60	6035	33.4	-34 31	8.7	9.0	F8	3	..	18436b
11	2682	33.1	-11 34	10.4	11.0	G	1	..	21395b	61	5221	33.4	-41 30	9.8	10.0	A3	2	..	39945b
12	2846	33.1	-15 50	9.0	9.3	Fo	5	..	21395b	62	5454	33.4	-43 50	9.6	9.3	Ao	3	..	39945b
13	7465	33.1	-28 11	8.5	9.7	Ko	2	..	13281b	63	4841	33.4	-48 15	8.9	8.6	B8	4	..	39931b
14	7641	33.1	-29 21	7.13	8.3	Ko	7	..	13281b	64	3992	33.4	-52 1	9.2	9.3	A2	3	..	39868b
15	6571	33.1	-32 50	8.8	10.7	K2	2	..	22015b	65	2612	33.4	-52 30	6.10	8.1	G5	..	0,8	56,127
16	5822	33.1	-36 54	8.7	9.0	Fo	3	..	18436b	66	2356	33.4	-56 47	10.0	10.1	A2	2	..	40105b
17	5926	33.1	-37 32	8.8	9.6	Ko	2	..	18436b	67	2161	33.4	-57 16	9.2	9.2	B9	3	..	40105b
18	5736	33.1	-38 15	8.8	8.2	Ao	5	..	18436b	68	527	33.4	-78 6	9.8	10.6	G5	2	..	21453b
19	5367	33.1	-40 54	10.0	9.7	F5	2	..	39945b	69	1989	33.5	+25 49	7.19	7.47	Fo	7	..	37741i
20	1138	33.1	-64 0	8.9	9.5	Go	2	..	40221b	70	2072	33.5	+21 40	7.84	8.62	G5	4	..	37608i
21	1029	33.1	-66 37	9.5	10.0	F8	1	..	40074b	71	2944	33.5	-2 38	8.4	9.2	G5	2	..	21505b
22	378	33.2	+77 40	7.9	8.9	Ko	5	..	37714i	72	5742	33.5	-38 45	9.3	9.7	Ao	3	..	18436b
23	2032	33.2	+42 44	8.0	8.5	F8	3	..	38336i	73	5456	33.5	-43 30	10.0	9.3	Ao	2	..	39945b
24	2163	33.2	+6 53	8.3	9.4	K2	3	2,2	19340b	74	3994	33.5	-51 38	10.9	9.8	Ao	2	..	39868b
25	2207	33.2	+5 6	4.78	5.78	Ko	..	..	56,86	75	1428	33.5	-59 33	9.0	9.0	B8	3	..	40105b
26	2681	33.2	-4 43	8.0	9.1	K2	5	..	22976b	76	1427	33.5	-59 37	9.5	10.6	K2	1	..	40105b
27	2684	33.2	-11 42	10.4	10.9	F8	1	..	21395b	77	1139	33.5	-64 7	6.8	6.8	Ao	7	..	40221b
28	2847	33.2	-15 47	8.8	9.9	K2	4	..	21395b	78	2236	33.6	+17 56	8.5	8.8	F	3	..	37608i
29	4538	33.2	-49 15	9.6	9.8	Ko	1	..	39931b	79	2091	33.6	+14 52	8.39	9.17	G5	2	..	37610i
30	3985	33.2	-52 6	9.6	9.2	A2	2	..	39868b	80	2853	33.6	-7 12	9.0	9.5	F8	4	..	19137b
31	2354	33.2	-56 9	9.8	9.8	B9	2	..	40105b	81	2850	33.6	-15 19	8.75	9.53	G5	3	..	21395b
32	2159	33.2	-57 35	7.6	8.6	Ko	5	..	38748b	82	2741	33.6	-18 32	8.2	8.2	Ao	5	..	41239b
33	422	33.2	-79 57	9.6	9.6	Ao	5	..	21453b	83	2740	33.6	-19 11	8.8	9.0	A2	2	..	41239b
34	2351	33.3	+20 45	6.80	6.78	B9	10	..	37608i	84	6781	33.6	-27 31	9.2	9.7	F	1	..	13281b
35	2852	33.3	-7 38	9.0	10.1	K2	2	..	19137b	85	7731	33.6	-30 26	9.7	9.5	A3	3	1,2	22915b
36	2851	33.3	-7 47	9.7	10.2	F8	3	..	19137b	86	5685	33.6	-39 50	9.0	10.0	K2	2	..	39945b
37	2685	33.3	-12 4	9.9	10.9	Ko	1	..	21395b	87	5644	33.6	-44 18	8.3	9.0	K2	2	..	39945b
38	2844	33.3	-16 12	9.1	10.1	Ko	1	..	41239b	88	1470	33.6	-60 41	8.0	8.1	B9	6	..	40221b
39	2739	33.3	-18 33	8.0	8.0	Ao	7	..	41239b	89	531	33.7	+69 42	5.74	6.74	Ko	..	0,10	56,86
40	7646	33.3	-29 45	9.5	9.8	F8	2	..	13281b	90	608	33.7	+67 12	8.1	8.2	A2	4	..	37517i
41	5833	33.3	-35 39	6.09	7.5	Ko	8	..	18436b	91	1253	33.7	+59 2	7.8	8.8	Ko	4	..	38224i
42	5219	33.3	-41 35	8.8	10.2	K2	2	..	39945b	92	1693	33.7	+46 56	8.6	9.6	Ko	1	..	38336i
43	5452	33.3	-42 49	8.6	9.1	Ko	4	..	39945b	93	2245	33.7	+3 40	9.2	10.2	Ko	3	..	19340b
44	5342	33.3	-46 33	8.6	9.9	K5	2	..	39931b	94	2335	33.7	+1 23	9.9	10.7	G5	1	..	19340b
45	4837	33.3	-48 20	8.8	8.3	Ao	4	..	39931b	95	2909	33.7	-13 18	8.8	8.8	Ao	4	..	21395b
46	4836	33.3	-48 55	4.49	4.63	A5	..	0,8 R	28,203	96	2907	33.7	-15 11	9.06	9.06	Ao	5	..	21395b
47	844	33.3	-73 4	8.2	9.3	K2	1	..	22988b	97	2767	33.7	-20 6	8.88	9.3	A2	4	..	41239b
48	218	33.4	+83 58	8.5	9.3	G5	2	..	37546i	98	7371	33.7	-25 55	8.3	9.0	G5	4	..	13281b
49	1861	33.4	+49 34	8.5	9.5	Ko	3	..	38650i	99	5686	33.7	-39 17	8.4	8.8	A2	4	..	39945b
50	2033	33.4	+42 31	8.22	9.22	Ko	3	5,3	38336i	100	4000	33.7	-51 9	10.0	9.5	A3	2	..	39868b

THE HENRY DRAPER CATALOGUE.

83500

9^h 33^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2365	33.7	-56 41	8.4	9.3	K ₂	3	..	40105b	51	405	34.2	+74 30	8.8	9.6	G ₅	3	..	37714i
2	1429	33.7	-59 31	9.7	9.7	Ao	2	..	40105b	52	1320	34.2	+54 22	8.6	9.7	K ₂	2	..	3865oi
3	1262	33.7	-62 14	9.4	9.7	Fo	1	..	40221b	53	1353	34.2	+53 4	8.1	9.1	Ko	2	E	38638i
4	1140	33.7	-63 27	8.7	9.7	Ko	1	..	40221b	54	1748	34.2	+44 59	8.7	8.8	A ₂	3	..	38336i
5	362	33.8	+76 21	8.6	9.6	Ko	2	..	37714i	55	1926	34.2	+29 7	9.5	10.5	K	1	..	37741i
6	466	33.8	+72 42	5.39	6.39	Ko	10	..	37714i	56	1792	34.2	+28 45	10.0	10.3	F	1	..	37741i
7	855	33.8	+63 10	8.1	9.1	Ko	2	..	37517i	57	2165	34.2	+6 56	9.0	9.8	G ₅	2	..	19340b
8	1319	33.8	+53 50	7.74	8.92	K ₅	4	0,3	3865oi	58	2650	34.2	-53 19	8.9	8.9	Ao	3	..	39868b
9	2131	33.8	+13 46	6.94	7.36	F ₅	7	..	37610i	59	2170	34.2	-57 33	9.0	9.5	Ao	2	..	40105b
10	2132	33.8	+12 52	9.2	9.3	A ₅	2	..	37610i	60	1588	34.2	-58 49	9.6	9.7	A ₂	2	..	40105b
11	2220	33.8	+8 56	8.7	10.1	Ma	..	..	M	61	1589	34.2	-59 7	9.6	10.8	K ₅	1	..	40105b
12	2246	33.8	+3 46	9.9	10.5	G	1	..	19340b	62	455	34.2	-78 26	9.1	10.1	Ko	3	..	21453b
13	2286	33.8	-1 39	9.2	9.2	Ao	3	E	19340b	63	351	34.2	-81 49	7.72	7.5	Ao	7	0,2-	13465b
14	2687	33.8	-11 20	7.8	8.8	Ko	7	..	21395b	64	1397	34.3	+56 19	6.67	7.67	Ko	5	..	38638i
15	2686	33.8	-12 11	8.7	9.7	Ko	3	..	21395b	65	2211	34.3	+5 32	9.2	9.6	F ₅	3	..	19340b
16	6039	33.8	-34 38	8.8	9.1	K ₂	2	..	18436b	66	2226	34.3	+4 8	9.9	10.5	Go	2	..	19340b
17	5827	33.8	-36 29	7.73	8.4	G ₅	6	..	18436b	67	2225	34.3	+3 56	9.4	10.8	Ma	1	..	19340b
18	5930	33.8	-37 23	9.3	9.3	G ₅	2	..	18436b	68	2232	34.3	+2 2	9.2	10.0	G ₅	1	..	19340b
19	4317	33.8	-50 39	9.6	9.8	Ao	3	..	39868b	69	2948	34.3	-2 13	8.4	9.6	K ₅	3	..	22970b
20	2646	33.8	-53 13	5.53	5.6	A ₂	..	0,7-	56,127	70	2858	34.3	-5 16	8.65	9.07	F ₅	5	0,2	22976b
21	1431	33.8	-59 15	9.4	9.4	B ₉	3	..	40105b	71	2884	34.3	-10 17	9.9	10.5	Go	1	..	21395b
22	1141	33.8	-64 5	9.7	9.7	Ao	1	..	40221b	72	2848	34.3	-17 11	6.87	7.15	Fo	8	..	41239b
23	1049	33.8	-64 30	6.88	6.6	A ₂	10	..	40221b	73	2921	34.3	-17 44	8.2	9.3	K ₂	2	..	41239b
24	336	33.8	-83 5	9.2	9.6	F ₅	2	..	20869b	74	8302	34.3	-24 32	9.1	9.7	F ₈	2	..	13281b
25	2034	33.9	+35 48	6.96	7.38	F ₅	7	..	38241i	75	5695	34.3	-39 57	8.94	9.7	Ko	2	..	39945b
26	2969	33.9	-20 28	8.6	9.0	A ₂	3	..	41239b	76	4009	34.3	-51 47	9.8	9.5	A ₃	3	..	39868b
27	7373	33.9	-25 32	9.5	9.9	G ₅	1	..	13281b	77	2511	34.3	-54 30	9.3	9.3	A	1	..	39868b
28	5691	33.9	-40 4	8.84	9.1	F ₂	4	..	39945b	78	1590	34.3	-58 35	8.9	8.5	B ₉	5	..	40105b
29	4546	33.9	-49 33	7.2	8.0	Go	8	..	39931b	79	1472	34.3	-60 56	8.4	8.5	A ₂	5	..	40221b
30	1030	33.9	-66 50	8.3	9.1	G ₅	3	..	40074b	80	2224	34.4	+4 25	9.9	11.0	K ₂	1	..	19340b
31	1098	33.9	-67 46	7.5	7.5	Ao	8	..	40074b	81	2249	34.4	+3 39	7.6	8.4	G ₅	7	..	19340b
32	853	33.9	-71 9	8.6	9.4	G ₅	1	..	22988b	82	2671	34.4	-22 30	9.0	9.3	F ₅	2	..	13323b
33	1987	34.0	+36 12	8.7	9.3	G	1	..	38241i	83	5303	34.4	-45 8	9.18	9.9	K ₅	1	..	39931b
34	2114	34.0	+22 39	8.1	8.2	A ₂	3	..	37608i	84	5357	34.4	-46 57	8.2	9.0	Ko	3	..	39931b
35	2946	34.0	-2 23	7.14	7.14	Ao	7	..	21505b	85	4328	34.4	-51 6	10.2	9.6	A ₃	2	..	39868b
36	2736	34.0	-3 34	7.8	8.9	K ₂	3	..	21505b	86	1591	34.4	-58 14	9.6	9.6	Ao	3	..	40105b
37	2908	34.0	-14 47	9.9	10.5	Go	2	..	21395b	87	1433	34.4	-59 42	9.0	9.4	Fo	3	..	40105b
38	7741	34.0	-30 29	9.7	10.1	Ko	1	2,1	13281b	88	1208	34.5	+57 57	8.7	9.7	Ko	2	..	38224i
39	6043	34.0	-34 59	8.39	9.3	K ₂	3	..	18436b	89	1793	34.5	+28 41	9.5	10.1	G	1	..	37741i
40	4320	34.0	-51 1	9.0	9.3	A ₂	5	..	39868b	90	2227	34.5	+4 44	8.06	9.06	Ko	6	..	19340b
41	2372	34.0	-56 58	9.6	10.7	K ₂	1	..	40105b	91	2688	34.5	-11 20	10.4	11.0	Go	2	..	21395b
42	594	34.0	-75 45	9.5	9.6	A ₂	4	..	21453b	92	2689	34.5	-11 31	10.4	11.2	G ₅	1	..	21395b
43	2075	34.1	+12 37	8.5	9.6	K ₂	2	..	37610i	93	2909	34.5	-14 44	9.9	10.3	F ₅	3	..	21395b
44	2248	34.1	+2 56	8.9	9.5	Go	4	..	19340b	94	7485	34.5	-31 53	8.7	8.9	Go	3	..	13047b
45	2737	34.1	-3 56	8.1	9.2	K ₂	2	..	21505b	95	5081	34.5	-47 29	9.0	9.3	Ko	2	..	39931b
46	2893	34.1	-9 58	9.1	9.7	Go	3	..	21395b	96	4858	34.5	-48 20	8.2	7.8	Fo	6	..	39931b
47	6788	34.1	-27 33	8.3	8.5	Ao	5	..	13281b	97	2656	34.5	-53 14	9.0	8.9	Bo	3	..	39868b
48	5462	34.1	-42 45	5.50	7.1	Ko	..	0,5 R	56,127	98	2175	34.5	-57 19	9.5	9.5	Ao	1	..	40105b
49	2505	34.1	-54 23	9.1	9.3	Fo	2	..	39868b	99	389	34.6	+75 3	6.69	6.97	Fo	9	..	37714i
50	317	34.2	+78 36	6.41	7.19	G ₅	7	..	37465i	100	1533	34.6	+51 22	9.1	9.5	F ₅	3	..	3865oi

ANNALS OF HARVARD COLLEGE OBSERVATORY.

83600

9^h 34^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1892	34.6	+44 26	7.77	8.05	Fo	7	..	38336i	51	2886	34.9	-10 16	8.51	9.58	K2	3	..	21395b
2	2079	34.6	+10 57	8.9	9.7	G5	1	..	3761oi	52	5768	34.9	-38 19	9.8	9.5	Ao	2	..	18436b
3	2041	34.6	+9 58	8.82	9.38	Go	1	..	3761oi	53	5474	34.9	-42 35	10.2	9.5	Ao	2	..	39945b
4	2739	34.6	-3 45	8.6	8.6	Ao	5	..	21505b	54	4338	34.9	-50 35	9.8	9.5	Ao	1	..	39868b
5	2968	34.6	-6 57	9.5	10.6	K2	1	..	19137b	55	2645	34.9	-52 15	7.9	8.1	B8	6	..	39868b
6	2885	34.6	-10 46	9.5	9.6	A5	3	..	21395b	56	2525	34.9	-54 38	9.1	8.6	A2	3	..	39868b
7	2922	34.6	-17 52	8.4	8.4	Ao	5	..	41239b	57	2370	34.9	-55 52	7.7	8.6	Ko	3	..	40105b
8	2673	34.6	-22 39	7.24	7.6	B9	7	..	13323b	58	2382	34.9	-56 25	8.2	9.5	Ko	4	..	40105b
9	5850	34.6	-36 5	8.4	8.8	G5	4	..	18436b	59	1474	34.9	-60 46	9.2	10.2	Ko	2	..	40096b
10	5697	34.6	-39 10	6.66	7.3	F5	7	3,7	18436b	60	596	34.9	-75 14	8.14	8.2	Ko	7	..	21453b
11	5384	34.6	-40 40	10.9	10.0	Ao	2	..	39945b	61	611	35.0	+67 36	8.5	8.6	A5	2	..	38654i
12	5386	34.6	-40 59	10.2	9.4	Ao	3	..	39945b	62	610	35.0	+66 50	8.3	8.8	F8	3	..	37517i
13	2361	34.6	-55 10	9.3	10.3	Ko	1	..	39868b	63	1229	35.0	+57 23	9.8	10.9	K2	1	..	38224i
14	1434	34.6	-59 27	7.2	7.4	A3	8	..	40105b	64	2020	35.0	+31 11	9.5	10.1	G	1	..	37741i
15	150	34.7	+84 57	7.94	8.72	G5	4	..	37546i	65	2115	35.0	+24 33	9.2	10.2	Ko	1	..	38646i
16	1413	34.7	+52 35	8.3	8.9	Go	4	E	38638i	66	2127	35.0	+14 27	8.9	9.2	F2	2	..	3761oi
17	2134	34.7	+25 29	8.1	8.7	Go	3	..	38646i	67	2741	35.0	-3 16	8.4	9.6	K5	2	..	22970b
18	2231	34.7	-0 41	4.10	5.10	Ko	..	O, R	1597c	68	2971	35.0	-6 20	9.2	10.2	Ko	1	..	19137b
19	2692	34.7	-11 59	10.1	10.6	F8	2	..	21395b	69	2899	35.0	-9 48	9.2	9.7	F8	2	..	21395b
20	2860	34.7	-15 30	8.2	8.5	Fo	7	..	21395b	70	2694	35.0	-11 15	10.4	11.2	G5	1	..	21395b
21	6239	34.7	-33 19	9.0	9.5	A2	3	..	13047b	71	2924	35.0	-17 37	8.2	9.0	G5	3	..	41239b
22	5361	34.7	-47 4	8.3	8.1	B9	4	..	39931b	72	6245	35.0	-33 52	9.4	9.6	A	1	..	13047b
23	4556	34.7	-49 23	10.2	9.5	F2	1	..	39931b	73	6244	35.0	-33 59	8.8	9.2	Ao	2	..	13047b
24	4335	34.7	-50 41	9.2	9.8	A2	1	..	39868b	74	5771	35.0	-39 5	7.5	8.4	Ko	3	..	39945b
25	2664	34.7	-53 46	7.1	6.7	Aop	..	I, 3 R	56, 127	75	4339	35.0	-50 21	9.4	9.2	A2	3	..	39868b
26	2516	34.7	-55 3	9.71	9.8	B8	1	..	39868b	76	4025	35.0	-51 55	9.8	9.3	Ao	2	..	39868b
27	1307	34.7	-61 12	8.4	8.4	B8	6	..	40221b	77	2373	35.0	-55 55	9.5	9.5	Ao	2	..	40105b
28	1322	34.8	+53 58	9.0	9.0	Ao	1	..	38638i	78	2383	35.0	-56 31	8.2	8.9	G5	4	..	40105b
29	1670	34.8	+49 49	8.99	9.99	Ko	2	..	3865oi	79	1593	35.0	-58 57	8.1	8.1	Go	6	5,2	40105b
30	1895	34.8	+33 27	7.82	8.16	F2	5	..	37741i	80	1092	35.0	-69 20	9.0	10.0	K	1	..	40074b
31	1912	34.8	+32 2	8.8	10.0	K5	..	..	M	81	1532	35.1	+46 41	9.1	9.5	F5	2	..	38336i
32	1990	34.8	+26 28	7.9	8.9	Ko	2	..	38646i	82	2078	35.1	+21 29	8.1	8.9	G5	3	..	37608i
33	2541	34.8	-0 10	9.13	10.13	Ko	3	..	19340b	83	2136	35.1	+13 31	6.77	7.27	F8	7	..	3761oi
34	2857	34.8	-7 40	9.2	9.5	F2	4	..	19137b	84	2233	35.1	+2 7	9.4	10.5	K2	1	..	19340b
35	2913	34.8	-13 56	9.0	9.8	G5	4	..	21395b	85	2232	35.1	-0 33	8.7	9.7	Ko	2	..	21505b
36	2861	34.8	-15 54	9.2	9.3	A2	3	..	21395b	86	2914	35.1	-13 14	9.5	10.0	F8	1	..	21395b
37	5238	34.8	-41 45	10.4	9.8	A2	1	..	39945b	87	2751	35.1	-19 6	8.4	8.5	A2	3	..	41239b
38	5304	34.8	-45 41	8.4	9.3	Ko	3	..	39931b	88	8599	35.1	-24 6	9.5	9.0	A3	3	..	13281b
39	2667	34.8	-53 9	9.3	10.3	Ko	1	..	39868b	89	5244	35.1	-41 19	9.4	9.3	A2	2	..	39945b
40	2367	34.8	-55 30	9.1	9.5	A2	3	..	40105b	90	5675	35.1	-45 3	9.08	9.0	Ao	4	2,4	39931b
41	1592	34.8	-58 15	9.5	9.6	A2	2	..	40105b	91	4866	35.1	-49 3	9.4	9.3	F5	2	..	39931b
42	1436	34.8	-59 56	9.3	9.3	Ao	3	..	40105b	92	2388	35.1	-56 45	8.7	9.8	K2	2	..	40105b
43	1118	34.8	-65 58	7.6	7.6	B9	6	..	40221b	93	1594	35.1	-58 31	9.7	9.7	Ao	2	..	40105b
44	1354	34.9	+53 38	9.3	9.9	Go	2	..	38638i	94	1050	35.1	-64 42	8.4	8.5	A2	4	..	40221b
45	1947	34.9	+43 2	8.3	9.3	Ko	4	..	38336i	95	921	35.1	-70 45	8.4	9.4	Ko	1	..	22988b
46	2223	34.9	+9 11	8.5	8.6	A2	2	..	3761oi	96	509	35.2	+70 54	8.1	8.4	F2	5	3,3	37706i
47	2251	34.9	+8 44	7.7	8.5	G5	5	..	3761oi	97	1894	35.2	+44 39	8.92	9.99	K2	1	..	38336i
48	2250	34.9	+3 25	9.2	10.2	Ko	2	..	19340b	98	2271	35.2	+39 25	6.96	7.74	G5	5	..	37459i
49	2861	34.9	-5 22	9.0	9.3	F2	3	O, 2	22976b	99	2043	35.2	+9 53	8.52	9.30	G5	1	..	3761oi
50	2898	34.9	-10 7	6.19	6.17	B9	10	..	21395b	100	2215	35.2	+4 49	8.81	9.81	Ko	4	..	19340b

THE HENRY DRAPER CATALOGUE.

83700

9^h 35^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2234	35.2	+ 2 2	10.6	11.6	Ko	1	..	19340b	51	2234	35.5	- 0 39	9.2	9.2	Ao	3	..	21505b
2	2733	35.2	- 8 38	7.48	7.76	Fo	7	0.7	19137b	52	2290	35.5	- 1 15	8.5	9.3	G5	4	..	21505b
3	2752	35.2	-18 29	9.2	9.7	F8	2	..	41239b	53	2915	35.5	-13 38	9.1	10.1	Ko	3	..	21395b
4	7676	35.2	-29 8	9.5	10.1	F8	1	..	13281b	54	2917	35.5	-13 53	4.96	4.79	B3	..	R	56,86
5	7678	35.2	-29 25	7.78	8.9	Ko	6	..	13281b	55	2867	35.5	-15 54	8.4	9.8	Ma	1	..	41239b
6	5478	35.2	-42 25	9.4	7.8	Ao	3	0.7	35949b	56	6613	35.5	-32 29	9.4	8.9	Fo	2	..	13047b
7	5369	35.2	-46 53	9.4	9.3	F8	2	..	39931b	57	5854	35.5	-35 49	10.2	9.6	Ao	1	..	18436b
8	2376	35.2	-55 46	9.2	9.5	Fo	3	..	40105b	58	5953	35.5	-37 16	9.1	9.6	Ko	1	..	18436b
9	1596	35.2	-59 1	9.2	9.3	A5	3	..	40105b	59	5095	35.5	-47 50	9.0	8.5	A2	4	..	39931b
10	2037	35.3	+35 33	8.8	9.4	Go	2	..	38241i	60	4353	35.5	-50 24	8.4	8.9	Ko	3	..	39868b
11	2233	35.3	- 0 56	8.9	10.0	K2	3	..	19340b	61	4031	35.5	-51 10	9.4	9.2	A3	4	..	39868b
12	2960	35.3	-12 32	7.07	7.49	F5	8	..	21395b	62	2679	35.5	-53 53	8.7	9.2	G5	2	..	39868b
13	2851	35.3	-16 42	8.4	8.7	F2	3	..	41239b	63	1599	35.5	-58 44	7.7	7.7	B9	8	..	40105b
14	2852	35.3	-16 48	9.0	9.5	F8	2	..	41239b	64	1031	35.5	-66 14	8.2	8.2	Ao	5	2,4	40221b
15	8314	35.3	-24 13	9.4	9.3	F2	2	..	13281b	65	858	35.6	+63 23	7.87	7.95	A3	5	..	37517i
16	5711	35.3	-39 44	10.4	9.3	Ao	2	..	39945b	66	1897	35.6	+33 31	8.9	10.3	Ma	..	..	M
17	5712	35.3	-39 46	10.2	9.8	Ao	1	..	39945b	67	2135	35.6	+23 8	9.5	10.3	G5	1	..	38646i
18	5681	35.3	-44 59	9.38	9.6	G5	1	..	39945b	68	2246	35.6	+18 24	8.5	8.9	F5	2	..	37608i
19	4872	35.3	-48 37	8.0	8.0	B9	6	..	39931b	69	2341	35.6	+ 1 29	10.2	10.7	F8	1	..	19340b
20	4562	35.3	-50 4	7.6	7.6	A2	8	..	39868b	70	2343	35.6	+ 1 0	9.9	10.5	Go	2	..	19340b
21	4345	35.3	-51 6	9.1	9.5	K5	1	..	39868b	71	2342	35.6	+ 0 58	9.34	9.62	Fo	3	..	19340b
22	4028	35.3	-52 1	9.6	9.2	A2	3	..	39868b	72	2735	35.6	- 8 20	8.8	9.1	F2	2	..	19137b
23	2195	35.3	-57 25	9.4	10.4	Ko	1	..	40105b	73	2915	35.6	-15 6	9.31	10.31	Ko	1	..	21395b
24	2197	35.3	-58 6	9.5	9.5	Ao	3	..	40105b	74	7502	35.6	-31 42	9.9	9.5	B8	2	..	13047b
25	1099	35.3	-67 32	8.5	9.5	Ko	1	..	40074b	75	6617	35.6	-32 28	8.4	8.3	A5	5	..	13047b
26	354	35.3	-81 14	8.77	9.1	Go	3	..	20869b	76	5855	35.6	-35 38	9.1	9.6	K2	1	..	18436b
27	319	35.4	+79 36	6.13	6.41	Fo	10	5,10	37465i	77	5954	35.6	-37 7	9.4	9.3	F8	2	..	18436b
28	1398	35.4	+56 38	9.3	10.4	K2	2	..	38224i	78	5250	35.6	-41 8	10.0	9.3	Ao	2	..	19157b
29	1795	35.4	+27 35	8.9	9.7	G5	2	..	38646i	79	5308	35.6	-45 19	9.1	9.3	Fo	3	5,2	39931b
30	2198	35.4	+ 6 6	9.0	10.0	Ko	2	..	19340b	80	5096	35.6	-47 40	9.1	9.0	Fo	3	..	39931b
31	2888	35.4	-10 19	6.19	6.25	A2	10	..	21395b	81	2398	35.6	-56 21	9.0	9.0	Ao	2	..	40105b
32	2913	35.4	-14 44	9.5	9.9	F5	4	..	21395b	82	1267	35.6	-62 53	8.9	8.9	Ao	5	..	40221b
33	2864	35.4	-15 27	9.5	9.9	F5	2	..	21395b	83	617	35.6	-74 29	9.3	9.9	Go	2	..	21453b
34	2776	35.4	-19 22	9.2	9.9	F5	1	..	41239b	84	1399	35.7	+56 8	8.7	9.7	Ko	3	..	38224i
35	7510	35.4	-28 28	7.98	9.4	K5	3	..	13281b	85	1533	35.7	+46 19	9.3	10.1	G5	1	..	38336i
36	7766	35.4	-30 54	9.2	10.1	F8	3	..	22915b	86	2013	35.7	+37 44	7.84	8.40	Go	4	..	38241i
37	6251	35.4	-33 13	9.4	10.1	Ao	2	..	22915b	87	2026	35.7	+31 43	6.08	7.26	K5	7	..	37741i
38	5852	35.4	-36 10	9.3	9.3	Ao	3	..	18436b	88	2130	35.7	+14 35	9.4	9.5	A2	2	..	37610i
39	5851	35.4	-36 14	10.2	9.6	B8	1	..	18436b	89	2076	35.7	+12 0	8.9	9.5	Go	2	..	37610i
40	5399	35.4	-40 14	8.68	8.3	Fo	4	..	39945b	90	2253	35.7	+ 8 39	8.9	9.4	F8	2	..	37610i
41	2657	35.4	-53 0	8.9	9.2	F2	2	..	39868b	91	2229	35.7	+ 4 15	8.6	9.7	K2	3	..	19340b
42	2393	35.4	-57 5	7.2	7.4	Ao	9	..	40105b	92	2974	35.7	- 6 26	7.8	8.1	Fo	8	..	19137b
43	1441	35.4	-59 36	9.9	9.9	B9	2	..	40105b	93	2914	35.7	-14 42	9.5	10.6	K2	1	..	21395b
44	597	35.4	-75 12	9.68	9.1	A2	5	..	21453b	94	7686	35.7	-30 3	8.00	8.3	A2	7	..	13281b
45	151	35.4	-87 51	6.8	7.6	G5	6	0.5	22578b	95	6619	35.7	-32 39	10.0	9.5	A2	3	..	22915b
46	379	35.5	+77 11	8.6	8.9	F2	5	..	37714i	96	5957	35.7	-37 16	8.4	9.3	Ko	2	..	18436b
47	1895	35.5	+44 6	7.35	8.35	Ko	5	2,4	38336i	97	5252	35.7	-41 13	8.7	8.1	F8	4	..	19157b
48	2218	35.5	+ 4 51	9.26	10.26	Ko	2	..	19340b	98	5687	35.7	-44 44	9.6	9.6	A2	2	..	39945b
49	2228	35.5	+ 4 10	9.9	10.0	A3	2	..	19340b	99	5100	35.7	-47 17	9.0	9.3	G5	3	..	39931b
50	2252	35.5	+ 2 57	9.2	10.0	G5	2	..	19340b	100	2399	35.7	-56 25	9.1	9.8	Go	1	..	40105b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

83800

9^h 35^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1443	35.7	-59 50	9.3	10.4	K2	1	..	40105b	51	5104	36.0	-47 33	9.0	8.2	A0	4	..	39931b
2	1143	35.7	-63 21	8.0	8.0	A0	5	..	40221b	52	5105	36.0	-47 47	7.5	8.1	F5	6	..	39931b
3	510	35.8	+71 33	9.6	10.2	G	1	..	37706i	53	2663	36.0	-52 30	7.4	8.6	K2	4	..	39868b
4	1867	35.8	+49 14	7.32	8.32	K0	7	..	38336i	54	2548	36.0	-54 56	10.0	10.1	A2	2	..	39868b
5	2241	35.8	+40 13	5.50	6.50	K0	..	5,7	56,86	55	1145	36.0	-63 40	8.8	9.1	F2	3	..	40221b
6	2039	35.8	+35 1	8.17	8.23	A2	4	..	38241i	56	1796	36.1	+47 56	9.1	10.3	K5	1	..	38336i
7	1797	35.8	+28 25	8.7	9.3	G0	3	..	37741i	57	2865	36.1	-6 8	9.2	9.5	F0	2	..	19137b
8	2044	35.8	+10 21	3.76	4.18	F5	..	R	1619c	58	2982	36.1	-20 48	9.2	9.9	F8	1	..	41224b
9	2219	35.8	+10 21	9.6	9.9	A3	..	..	19340i	59	7523	36.1	-29 5	9.4	9.9	G5	1	..	13281b
10	2344	35.8	+1 42	9.9	10.5	F0	3	..	19340b	60	6065	36.1	-34 43	8.7	9.0	G0	2	..	13047b
11	5403	35.8	-40 23	7.8	8.0	G0	1	..	19157b	61	5258	36.1	-41 35	8.4	9.3	K0	2	..	19157b
12	5408	35.8	-43 51	9.1	10.2	K5	1	..	39945b	62	5314	36.1	-45 13	9.54	9.6	A0	3	0,2	39931b
13	2544	35.8	-55 2	9.01	10.1	K0	1	..	39868b	63	4882	36.1	-49 3	10.2	9.6	A3	2	..	39931b
14	2400	35.8	-56 25	10.0	10.1	K0	1	..	40105b	64	2693	36.1	-53 49	8.0	8.9	G5	4	..	38408i
15	1119	35.8	-66 1	9.0	10.0	A2	1	..	21452b	65	2554	36.1	-54 18	6.9	6.9	B3	..	5,3-	56,127
16	856	35.8	-71 15	8.7	9.1	K0	4	2,2	40074b	66	2208	36.1	-57 50	7.6	7.7	B8	8	..	40105b
17	619	35.8	-74 51	9.0	10.4	F5	2	..	21453b	67	1120	36.1	-65 47	10.0	10.0	A0	1	..	40074b
18	2272	35.9	+39 42	8.72	9.14	Ma	1	..	38241i	68	469	36.2	+71 53	8.8	9.6	G5	2	..	37706i
19	1933	35.9	+29 20	8.31	9.09	F5	2	..	37741i	69	1868	36.2	+48 53	6.34	6.34	A0	9	..	38336i
20	1991	35.9	+26 22	6.43	7.43	G5	3	..	37741i	70	1996	36.2	+41 27	8.1	8.9	G5	4	..	38241i
21	2226	35.9	+9 28	6.84	7.12	K0	6	..	37741i	71	2139	36.2	+13 21	8.3	9.1	G5	2	..	37610i
22	2345	35.9	+1 26	9.4	10.0	F0	7	..	37610i	72	2220	36.2	+5 10	8.1	9.1	K0	6	..	19340b
23	2920	35.9	-13 26	9.9	10.5	G0	1	..	19340b	73	2348	36.2	+0 51	8.94	9.22	F0	4	..	19340b
24	2930	35.9	-18 2	8.6	8.9	G0	1	..	21395b	74	2975	36.2	-7 11	8.2	8.2	A0	7	..	19137b
25	7775	35.9	-30 28	7.43	8.7	F0	4	..	41239b	75	2963	36.2	-12 38	8.1	9.3	K5	3	..	21395b
26	6258	35.9	-33 14	9.6	10.1	K5	5	..	13281b	76	7778	36.2	-30 17	9.2	9.2	A2	3	..	13281b
27	5786	35.9	-38 28	10.0	9.8	G5	2	..	22915b	77	5410	36.2	-40 45	8.8	8.3	A0	4	..	19157b
28	5500	35.9	-43 47	9.0	9.3	G	1	..	18436b	78	5505	36.2	-42 29	10.0	9.3	A3	2	..	19157b
29	5379	35.9	-46 8	9.6	9.9	F5	3	..	39945b	79	4578	36.2	-49 41	7.5	8.0	F0	6	..	39931b
30	R	35.9	-59 27	..	..	F5	3	..	39931b	80	4365	36.2	-50 28	9.4	9.0	A0	3	..	39868b
31	R	35.9	-59 38	..	..	K0	1	..	40105b	81	2669	36.2	-52 49	7.4	8.1	B5	7	..	39868b
32	1308	35.9	-62 6	7.45	7.1	76,22	1	..	76,22	82	2696	36.2	-53 52	9.1	9.3	F0	3	..	38408b
33	1144	35.9	-63 57	6.99	6.6	B9	7	..	40221b	83	2697	36.2	-54 2	8.3	9.5	F0	3	..	38408b
34	968	35.9	-68 29	9.1	10.2	B5	10	..	40221b	84	1601	36.2	-58 58	10.1	10.1	K0	3	..	40105b
35	857	35.9	-71 59	9.0	9.1	K2	2	..	21452b	85	356	36.2	-81 58	8.9	9.3	A0	2	..	40105b
36	529	35.9	-77 54	9.3	9.6	A5	2	..	22988b	86	1345	36.3	+54 50	6.34	6.40	F5	3	..	20869b
37	575	36.0	+70 44	7.9	9.0	F2	5	..	21453b	87	1537	36.3	+51 3	8.1	8.9	A2	8	..	38638i
38	1536	36.0	+51 44	7.34	8.69	K2	3	..	37706i	88	1535	36.3	+45 59	8.7	9.2	G5	3	E	38638i
39	2247	36.0	+18 20	8.7	9.0	Ma	4	0,3	38650i	89	2019	36.3	+34 46	8.37	9.37	F8	3	..	38336i
40	2346	36.0	+1 36	9.6	10.2	F2	3	..	37608i	90	1936	36.3	+29 10	8.6	8.9	K0	2	..	38241i
41	2698	36.0	-11 29	9.0	9.4	G0	2	..	19340b	91	2010	36.3	+16 13	7.9	8.9	F0	4	..	37741i
42	2699	36.0	-11 51	9.2	9.2	F5	5	..	21395b	92	2340	36.3	+0 59	9.4	9.8	K0	3	..	37608i
43	2981	36.0	-21 7	7.6	9.0	A0	4	..	21395b	93	2921	36.3	-13 38	10.4	11.4	F5	2	..	19340b
44	2682	36.0	-22 54	8.2	9.6	K0	4	0,4	13323b	94	6266	36.3	-33 23	8.7	8.9	K0	1	..	21395b
45	7396	36.0	-25 52	9.1	8.7	A5	3	..	13145b	95	4367	36.3	-51 3	8.9	9.2	A5	2	..	13047b
46	7327	36.0	-26 22	8.3	8.7	K5	3	..	13281b	96	2393	36.3	-56 4	8.4	8.1	A2	4	..	39868b
47	6259	36.0	-33 51	8.7	9.6	A0	6	..	13281b	97	2407	36.3	-57 4	8.8	9.5	A0	7	..	40105b
48	5497	36.0	-43 4	7.8	8.4	F2	6	..	22915b	98	1446	36.3	-59 12	9.1	9.9	K0	2	..	40105b
49	5697	36.0	-44 37	9.8	9.9	K2	3	..	19157b	99	1270	36.3	-62 41	9.6	9.7	K0	2	..	40105b
50		36.0	-44 37	9.8	9.9	A0	5	..	39945b	100	1032	36.3	-66 15	8.8	8.8	A3	3	..	40221b
							2	..								A0	4	..	21452b

THE HENRY DRAPER CATALOGUE.

83900

9^h 36^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	969	36.3	-68 41	8.5	9.7	K5	3	5, I	21452b	51	2042	36.7	+35 32	6.03	6.37	F2	8	..	38241i
2	622	36.3	-74 21	8.2	9.4	K5	3	..	21453b	52	2923	36.7	-13 31	9.5	10.6	K2	1	..	21395b
3	623	36.3	-75 0	10.1	10.1	A	1	..	21453b	53	2684	36.7	-23 8	4.74	4.55	B2p	..	3,8 R	56,86
4	362	36.3	-80 46	9.3	10.5	K5	2	E	21453b	54	5708	36.7	-44 9	9.6	9.6	K2	2	..	39945b
5	1356	36.4	+53 34	8.5	8.6	A3	4	..	38638i	55	5709	36.7	-45 7	9.44	9.3	A0	2	..	39945b
6	2139	36.4	+23 46	8.1	8.6	F8	4	..	37608i	56	2681	36.7	-52 49	9.4	9.5	A2	2	..	39868b
7	2116	36.4	+22 1	8.7	9.5	G5	2	..	37608i	57	2398	36.7	-56 4	9.3	9.3	A0	3	..	40105b
8	2083	36.4	+11 37	9.0	9.4	F5	1	..	37610i	58	2415	36.7	-56 51	8.9	8.6	B9	4	..	40105b
9	2256	36.4	+2 58	9.2	9.7	F8	1	..	19340b	59	2214	36.7	-57 28	8.8	8.9	A2	4	..	40105b
10	2350	36.4	+1 20	9.4	9.9	F8	3	..	19340b	60	364	36.7	-80 8	9.8	10.2	F5	3	..	21453b
11	2868	36.4	-6 10	10.1	10.4	F2	1	..	19137b	61	363	36.8	+76 46	8.7	9.3	Go	4	..	37714i
12	2965	36.4	-12 30	9.7	10.5	G5	1	..	21395b	62	731	36.8	+65 26	6.18	6.52	F2	9	..	37517i
13	2919	36.4	-14 44	9.9	10.3	F5	1	..	21395b	63	1357	36.8	+53 28	8.5	9.0	F8	2	..	38638i
14	8619	36.4	-23 42	8.5	8.2	B8	4	..	13323b	64	2043	36.8	+34 50	8.80	9.36	Go	2	..	38241i
15	6268	36.4	-33 31	9.6	10.4	A5	2	..	22915b	65	2120	36.8	+17 31	8.1	8.1	B9	5	..	37608i
16	5727	36.4	-39 36	8.7	8.1	A0	3	..	39945b	66	2131	36.8	+14 0	8.6	9.0	F5	2	..	37610i
17	4581	36.4	-49 46	9.1	9.0	F8	3	..	39931b	67	2227	36.8	+9 10	9.2	9.6	F5	2	..	37610i
18	2557	36.4	-54 11	10.1	10.1	A0	2	..	38408b	68	2168	36.8	+7 11	8.7	9.1	F5	3	E	37610i
19	1146	36.4	-64 3	7.3	8.3	K0	7	..	40221b	69	2222	36.8	+5 26	8.6	9.4	G5	6	..	19340b
20	1952	36.5	+43 31	8.7	8.8	A2	3	..	38336i	70	2237	36.8	+2 32	8.7	9.0	F0	6	..	19340b
21	2041	36.5	+35 27	8.00	8.50	F8	4	..	38241i	71	2977	36.8	-6 18	8.7	9.8	K2	3	..	19137b
22	2701	36.5	-11 51	9.7	10.7	K0	2	..	21395b	72	2978	36.8	-6 56	9.5	10.3	G5	1	..	19137b
23	2857	36.5	-16 56	8.0	9.2	K5	3	..	41239b	73	2933	36.8	-18 2	7.6	8.1	F8	7	..	41239b
24	7525	36.5	-28 24	8.9	10.2	K5	1	..	13281b	74	5733	36.8	-40 7	9.4	9.3	G5	2	..	39945b
25	7697	36.5	-30 7	9.50	9.6	A2	2	..	13281b	75	4891	36.8	-48 32	8.6	10.0	K5	1	..	39931b
26	7519	36.5	-31 56	8.9	10.1	K0	3	..	22915b	76	2680	36.8	-52 35	8.4	8.3	A0	5	..	39868b
27	5863	36.5	-36 43	7.71	7.8	F8	7	..	18436b	77	2416	36.8	-56 49	9.5	9.5	A0	3	..	40105b
28	2673	36.5	-52 35	8.9	9.3	A2	2	..	39868b	78	429	36.8	-79 25	9.5	9.6	A5	6	..	21453b
29	2704	36.5	-53 52	10.3	10.3	A0	1	..	38408b	79	365	36.8	-80 30	5.24	5.07	B3	..	2,9 R	56,127
30	1603	36.5	-58 40	9.4	10.2	G5	2	..	40105b	80	859	36.9	+62 51	8.1	8.9	G5	2	..	37517i
31	1602	36.5	-58 52	10.1	9.9	B	2	..	40105b	81	2251	36.9	+18 40	9.0	9.0	A	3	..	37608i
32	1272	36.5	-62 45	8.8	8.8	B8	4	..	40221b	82	2098	36.9	+15 13	8.6	9.6	K0	2	..	37608i
33	168	36.5	-87 2	9.7	10.9	K5	1	..	22238b	83	2257	36.9	+8 2	8.9	9.9	K0	1	..	9463b
34	1898	36.6	+33 28	7.05	7.83	G5	6	..	37741i	84	2292	36.9	-1 17	9.2	9.6	F5	5	..	22970b
35	1993	36.6	+26 4	7.8	8.8	K0	3	..	37741i	85	2870	36.9	-5 26	9.0	9.1	A2	3	..	19137b
36	2744	36.6	-3 49	8.0	9.2	K5	3	..	22970b	86	2702	36.9	-12 10	7.6	7.9	F0	7	..	21395b
37	2903	36.6	-10 3	7.46	8.53	K2	5	..	21395b	87	2862	36.9	-17 10	9.1	9.4	F0	3	..	41239b
38	8622	36.6	-23 28	9.4	9.3	G5	2	..	13145b	88	2934	36.9	-17 26	8.8	9.6	G5	2	..	41239b
39	6828	36.6	-27 24	8.3	9.9	K0	1	..	13281b	89	2882	36.9	-21 20	8.2	9.0	F5	2	R	13323b
40	7699	36.6	-29 29	9.7	9.8	A	1	..	13281b	90	7705	36.9	-29 31	9.2	10.1	A3	1	..	13281b
41	2678	36.6	-52 56	8.3	8.3	A3	5	..	39868b	91	7526	36.9	-31 8	9.4	9.5	A	1	..	13047b
42	2565	36.6	-54 20	9.1	9.5	F5	3	0,2	38408b	92	7528	36.9	-32 4	9.7	10.4	A0	1	..	22915b
43	2212	36.6	-57 52	10.2	11.2	K	1	..	40105b	93	6641	36.9	-32 28	8.1	10.1	K5	1	..	13047b
44	1477	36.6	-60 53	4.67	4.65	B9	..	R	28,203	94	5868	36.9	-35 35	7.33	8.2	F8	6	..	13116b
45	1313	36.6	-62 6	7.37	7.3	B8	7	..	40221b	95	5400	36.9	-46 53	9.8	10.1	F0	1	..	39931b
46	1051	36.6	-64 33	8.7	9.2	F8	3	..	40221b	96	5116	36.9	-47 57	9.1	10.2	K5	1	..	39931b
47	1034	36.6	-66 13	8.7	9.1	F5	3	0,3	21452b	97	4053	36.9	-51 42	9.8	9.5	A0	1	..	39868b
48	1033	36.6	-66 25	7.64	7.6	F0	7	..	40221b	98	2401	36.9	-55 16	8.06	8.0	A2	7	..	40105b
49	1258	36.7	+59 36	8.8	8.9	A2	1	..	38224i	99	1605	36.9	-58 23	9.9	9.9	A0	2	..	40105b
50	1400	36.7	+56 25	var.	var.	Go	4	R	38638i	100	1606	36.9	-58 50	8.1	7.8	A5	7	..	40105b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

84000

9^h 36^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1277	36.9	-62 48	7.3	7.3	B9	8	..	40221b	51	2873	37.3	-5 46	9.5	9.9	F5	4	..	19137b
2	531	36.9	-77 28	9.8	10.8	Ko	1	..	21453b	52	2971	37.3	-12 28	8.4	8.7	Fo	5	..	21395b
3	2016	37.0	+37 36	7.47	8.54	K2	4	..	38241i	53	2938	37.3	-17 28	9.2	9.6	F5	1	..	41239b
4	1920	37.0	+32 44	7.18	7.52	F2	7	..	37741i	54	2686	37.3	-22 47	9.2	10.2	K5	1	..	13145b
5	1898	37.0	+30 35	6.68	6.82	A5	..	5,9	56,86	55	5723	37.3	-44 23	8.5	9.9	K5	1	..	39945b
6	2238	37.0	+2 14	10.6	11.7	K2	1	..	19340b	56	5722	37.3	-44 43	9.6	9.9	Ao	2	..	39945b
7	2891	37.0	-10 47	9.1	9.4	F2	3	..	21395b	57	4061	37.3	-51 51	9.6	9.3	Ao	2	..	39868b
8	2924	37.0	-13 14	9.2	10.2	Ko	2	..	21395b	58	2422	37.3	-56 19	9.4	9.5	A2	2	..	40105b
9	2863	37.0	-16 17	9.7	10.9	K5	1	..	41239b	59	1754	37.4	+45 11	7.57	7.91	F2	4	..	38336i
10	7411	37.0	-25 27	8.7	9.0	Fo	4	..	13281b	60	2750	37.4	-3 38	8.6	8.7	A5	4	..	22970b
11	6083	37.0	-35 2	8.59	9.6	K5	3	..	22915b	61	2869	37.4	-7 26	9.2	10.2	Ko	1	..	19137b
12	5878	37.0	-36 26	8.4	9.3	Go	3	..	18436b	62	2868	37.4	-7 34	9.5	10.0	F8	1	..	19137b
13	5804	37.0	-38 25	9.8	9.8	F8	1	..	18436b	63	2972	37.4	-12 36	8.8	9.6	G5	3	..	21395b
14	5519	37.0	-43 4	10.0	9.8	A2	2	..	39945b	64	2973	37.4	-12 42	9.7	9.8	A3	3	..	21395b
15	1608	37.0	-59 6	10.0	10.1	A2	1	..	40105b	65	2922	37.4	-14 35	10.6	11.0	F5	1	..	21395b
16	972	37.0	-68 9	8.8	8.9	A5	3	..	40074b	66	2990	37.4	-20 27	9.2	9.6	Ko	2	..	41224b
17	430	37.0	-79 7	9.8	10.9	K2	1	..	21453b	67	8639	37.4	-23 49	8.9	7.8	B9	5	..	13323b
18	431	37.0	-79 18	9.9	10.9	Ko	1	..	21453b	68	5275	37.4	-41 31	7.6	8.0	Ko	4	..	19157b
19	313	37.1	+81 25	9.3	9.6	Fo	2	..	37465i	69	5274	37.4	-41 43	10.7	9.5	A	1	..	19157b
20	2258	37.1	+7 52	8.9	9.5	Go	3	..	9643h	70	5337	37.4	-45 56	7.9	9.0	Ko	5	..	39931b
21	2239	37.1	+2 46	7.9	9.0	K2	5	..	19340b	71	5123	37.4	-47 21	9.0	9.0	Fo	3	..	39931b
22	2748	37.1	-3 33	8.2	9.4	K5	4	..	22970b	72	2426	37.4	-56 17	8.9	10.4	K5	1	..	40105b
23	2872	37.1	-5 56	9.7	9.8	A2	2	..	19137b	73	1319	37.4	-61 55	9.1	9.4	F8	2	..	40221b
24	2967	37.1	-12 59	9.2	10.6	Mb	..	..	M	74	1052	37.4	-64 33	9.2	10.0	G5	1	..	40221b
25	2921	37.1	-14 59	8.6	9.6	Ko	5	..	21395b	75	534	37.4	-77 54	8.7	9.3	Go	7	..	21453b
26	2936	37.1	-17 20	8.7	9.0	Fo	6	..	41239b	76	151	37.5	+84 51	8.38	8.88	F8	3	..	37546i
27	2785	37.1	-19 54	8.7	9.9	Ko	2	0,1	41224b	77	1800	37.5	+27 40	8.7	9.7	Ko	2	..	38646i
28	8633	37.1	-23 46	9.9	10.2	K2	1	..	13145b	78	2241	37.5	+2 15	7.9	9.2	Fo	5	..	19340b
29	5742	37.1	-39 16	8.7	8.4	Ao	3	..	39945b	79	2874	37.5	-5 25	9.2	9.3	A5	4	..	19137b
30	5523	37.1	-42 43	9.6	9.5	A2	2	..	19157b	80	2871	37.5	-7 37	9.33	9.89	Go	2	..	19137b
31	2714	37.1	-53 56	8.5	8.4	A2	6	..	38408b	81	2873	37.5	-15 28	8.2	9.2	Ko	3	..	41239b
32	2219	37.1	-57 58	9.9	10.9	Ko	1	..	40105b	82	2874	37.5	-15 32	8.8	8.8	Ao	5	..	41239b
33	1102	37.1	-67 7	7.8	8.8	Ko	4	..	40074b	83	8641	37.5	-23 15	8.5	8.0	Fo	4	..	13323b
34	1327	37.2	+54 14	9.3	10.7	Ma	2	..	38650i	84	7711	37.5	-29 39	9.7	8.9	A2	3	..	13281b
35	1953	37.2	+43 11	8.1	9.2	K2	3	..	38336i	85	7712	37.5	-29 51	6.77	8.3	Ko	7	..	13281b
36	1922	37.2	+32 4	8.8	9.1	Fo	2	..	37741i	86	7537	37.5	-31 44	8.5	8.3	A2	4	..	13047b
37	2121	37.2	+24 3	8.7	9.5	G5	2	..	37608i	87	6653	37.5	-32 7	9.1	9.8	Go	3	..	22915b
38	2867	37.2	-7 18	8.2	8.8	Go	4	..	19137b	88	6086	37.5	-34 25	9.0	9.3	A5	1	..	13047b
39	2786	37.2	-19 43	8.6	9.9	G5	3	5,1	41224b	89	5987	37.5	-38 2	8.1	8.7	G5	4	..	13116b
40	7415	37.2	-25 31	8.5	9.0	F8	4	..	13281b	90	5277	37.5	-41 40	9.1	8.6	Ao	4	..	19157b
41	7536	37.2	-28 56	9.7	9.3	A5	2	..	13281b	91	5276	37.5	-41 58	10.4	9.8	Ao	1	..	39945b
42	6646	37.2	-32 57	7.00	7.3	Ao	9	..	13047b	92	2725	37.5	-53 37	9.4	10.4	Ko	1	..	38408b
43	5524	37.2	-42 29	9.0	8.9	F8	3	..	19157b	93	2421	37.5	-55 9	9.37	9.3	Ao	4	..	40105b
44	5336	37.2	-45 43	7.8	9.3	K2	5	0,3	39931b	94	2225	37.5	-57 38	10.7	10.7	Ao	2	..	40105b
45	4896	37.2	-48 46	10.0	9.2	Ao	3	..	39931b	95	2226	37.5	-57 59	8.9	8.9	B8	4	..	40105b
46	1279	37.2	-62 30	6.72	6.4	B8	9	..	40221b	96	1095	37.5	-69 25	9.4	9.4	Ao	2	..	40074b
47	625	37.2	-74 21	9.1	9.1	Ao	4	..	21453b	97	1871	37.6	+49 29	9.1	10.1	Ko	1	..	38650i
48	432	37.2	-79 45	9.7	10.8	K2	1	..	21453b	98	2084	37.6	+21 22	8.8	9.6	G5	1	..	37608i
49	2240	37.3	+2 36	9.9	10.5	Go	1	..	19340b	99	2983	37.6	-6 36	9.7	10.8	K2	1	..	19137b
50	2546	37.3	+0 10	6.76	7.76	Ko	6	..	21505b	100	2698	37.6	-52 50	9.2	9.3	A2	1	..	39868b

THE HENRY DRAPER CATALOGUE.

84100

9^h 37^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2579	37.6	-54 32	7.2	7.2	B8	5	0.9	44470b	51	2434	37.9	-56 34	9.7	9.8	A2	1	..	40105b
2	2429	37.6	-56 24	9.1	10.1	K2	2	..	40105b	52	2435	37.9	-56 48	5.83	7.3	Ko	..	..	56,127
3	2430	37.6	-56 40	8.9	10.1	Ko	2	..	40105b	53	1611	37.9	-58 35	7.4	8.4	Ko	7	0.2	40105b
4	2227	37.6	-57 58	9.5	9.5	B9	2	..	40105b	54	1321	37.9	-61 23	9.6	9.7	A2	2	..	40221b
5	1680	37.7	+49 53	8.47	8.55	A3	2	..	38650i	55	536	37.9	-77 48	9.6	10.6	Ko	1	..	21453b
6	2022	37.7	+34 34	7.34	8.34	Ko	4	E	37741i	56	1416	38.0	+51 51	9.0	10.0	Ko	2	..	38638i
7	1901	37.7	+30 27	5.73	5.79	A2	..	0, R	56,86	57	2351	38.0	+0 58	10.2	10.3	A3	2	..	13393b
8	2141	37.7	+25 4	8.8	9.3	F8	4	..	38642i	58	2742	38.0	-8 41	9.0	10.1	K2	1	..	19137b
9	2123	37.7	+24 15	8.9	10.0	K2	1	..	38642i	59	2897	38.0	-10 14	9.41	9.47	A2	3	..	21395b
10	2258	37.7	+18 14	7.9	7.9	B9	4	..	37608i	60	2689	38.0	-22 58	9.5	9.6	Ao	2	..	13145b
11	2133	37.7	+14 36	8.9	9.4	F8	2	..	37610i	61	7354	38.0	-26 59	9.5	10.5	Ko	1	..	13281b
12	2229	37.7	+9 16	8.3	8.4	A3	3	..	37610i	62	5887	38.0	-36 57	8.0	8.7	F8	5	..	18436b
13	2225	37.7	+5 29	8.7	9.0	Fo	5	..	19340b	63	1480	38.0	-60 48	8.5	8.8	Ao	4	..	40221b
14	2875	37.7	-15 24	8.8	9.8	Ko	3	..	41239b	64	1105	38.0	-67 21	9.2	10.2	Ko	1	0.1	21452b
15	2760	37.7	-18 19	9.2	9.2	Ao	3	..	41239b	65	630	38.1	+66 5	7.22	8.57	Ma	5	..	37517i
16	2790	37.7	-20 1	8.6	9.6	K2	3	2.2	41224b	66	1417	38.1	+52 31	8.8	9.8	Ko	2	..	38650i
17	8646	37.7	-23 28	5.04	5.60	Go	..	5.7	56,86	67	2984	38.1	-6 41	9.7	10.3	Go	1	..	19137b
18	8647	37.7	-23 59	9.2	10.0	K2	1	..	13145b	68	2943	38.1	-18 12	9.5	10.1	Go	2	..	41224b
19	4389	37.7	-50 29	8.8	9.6	K5	1	..	39868b	69	2993	38.1	-20 31	8.8	9.9	Ko	1	..	41224b
20	4391	37.7	-50 42	8.5	8.9	F5	4	..	39868b	70	5431	38.1	-40 10	9.14	9.3	G5	2	..	39945b
21	2228	37.7	-57 32	5.36	5.4	A2	..	..	56,127	71	5281	38.1	-41 49	7.2	7.7	Ao	4	0.9	35947b
22	848	37.7	-72 14	9.1	9.1	Ao	2	..	40074b	72	5537	38.1	-42 54	8.5	9.3	K2	3	0.2	39945b
23	2041	37.8	+42 31	6.82	6.90	A3	7	R	38336i	73	5347	38.1	-45 33	8.5	9.3	G5	3	5.2	39931b
24	2366	37.8	+20 39	7.00	8.00	Ko	7	..	37608i	74	4075	38.1	-52 5	7.9	8.3	A2	6	..	39868b
25	2085	37.8	+10 57	8.5	8.8	Fo	3	..	37610i	75	2738	38.1	-53 58	9.8	9.8	Ao	2	..	38408b
26	2294	37.8	-1 47	8.7	9.7	Ko	2	..	22970b	76	2428	38.1	-55 37	9.0	10.1	K2	2	3.1	40105b
27	2873	37.8	-7 39	var.	var.	Mb	5	R	55,15	77	1612	38.1	-58 41	8.4	9.3	Ko	3	..	40105b
28	2894	37.8	-10 25	8.4	9.4	Ko	3	..	21395b	78	1613	38.1	-58 46	9.0	9.0	B9	3	..	40105b
29	2926	37.8	-13 31	7.60	7.60	Ao	7	..	21395b	79	752	38.2	+64 7	6.50	6.84	F2	8	..	37517i
30	2925	37.8	-14 32	9.0	9.8	G5	4	..	21395b	80	2275	38.2	+38 54	8.7	9.7	Ko	2	..	38241i
31	2927	37.8	-14 34	8.5	8.6	A2	8	..	21395b	81	2046	38.2	+35 10	7.94	9.29	Ma	2	..	38241i
32	2992	37.8	-20 40	8.17	9.0	F8	6	0.5	41224b	82	2134	38.2	+13 54	7.18	8.18	Ko	4	..	37610i
33	6657	37.8	-32 11	8.0	9.8	K5	1	..	13047b	83	2087	38.2	+10 59	6.84	7.26	F5	7	..	37610i
34	5886	37.8	-36 37	7.8	8.2	Ao	7	..	13116b	84	2261	38.2	+3 5	7.32	7.82	F8	8	..	19340b
35	5344	37.8	-46 4	10.0	9.6	A5	1	..	39931b	85	2876	38.2	-6 10	7.9	9.0	K2	7	..	19137b
36	4902	37.8	-48 9	9.1	8.9	B3	2	..	39931b	86	2691	38.2	-22 51	9.5	9.9	Go	1	..	13145b
37	4068	37.8	-51 11	7.8	8.4	A2	7	..	39868b	87	5348	38.2	-45 56	8.8	9.6	G5	2	..	39931b
38	2229	37.8	-57 36	9.7	9.8	A3	2	..	40105b	88	5420	38.2	-46 12	8.6	9.6	Ko	3	..	39931b
39	1320	37.8	-62 4	8.9	9.1	F8	3	..	40221b	89	4612	38.2	-49 20	9.2	9.5	Ko	1	..	39931b
40	1280	37.8	-62 33	8.4	8.4	B9	4	..	40221b	90	2431	38.2	-55 15	9.5	9.5	Ao	3	..	40105b
41	849	37.8	-72 15	9.1	9.2	A2	2	..	22988b	91	1053	38.2	-64 39	8.2	8.2	Ao	6	..	40221b
42	1260	37.9	+58 54	8.5	9.0	F8	4	..	38224i	92	1206	38.3	+60 8	9.3	9.7	F5	1	..	38224i
43	1358	37.9	+53 16	8.5	8.9	F5	3	..	38638i	93	1876	38.3	+49 4	8.7	9.7	Ko	3	..	38336i
44	2023	37.9	+33 51	8.5	9.1	Go	2	..	38241i	94	2136	38.3	+14 29	5.62	6.97	Ma	9	R	37610i
45	2927	37.9	-13 40	9.0	10.0	Ko	2	..	21395b	95	2082	38.3	+12 37	8.3	9.5	K5	2	..	37610i
46	2928	37.9	-14 12	9.9	10.3	F5	2	..	21395b	96	2206	38.3	+6 40	8.3	8.7	F5	3	E	37610i
47	6852	37.9	-27 47	7.9	9.7	K2	3	..	13281b	97	2877	38.3	-5 34	9.1	9.4	Fo	3	..	19137b
48	6089	37.9	-34 23	9.1	9.3	A	1	..	13047b	98	2929	38.3	-13 26	8.8	9.8	Ko	3	..	21395b
49	4070	37.9	-51 25	9.6	9.3	A3	3	..	39868b	99	2693	38.3	-22 30	7.8	8.4	F2	5	..	13323b
50	2731	37.9	-53 47	9.7	9.8	A2	1	..	38408b	100	7360	38.3	-26 39	8.9	10.2	Ko	1	..	13281b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

84200

9^h 38^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5886	38.3	-35 7	7.84	8.1	Ao	5	..	13116b	51	2452	38.8	-56 55	9.3	10.3	Ko	2	..	40105b
2	2441	38.3	-57 4	9.5	9.5	B9	3	..	40105b	52	2251	38.9	+19 20	6.64	7.64	Ko	8	..	37608i
3	2233	38.3	-58 4	9.8	10.1	Fo	1	..	40105b	53	2547	38.9	+ 0 2	9.2	10.2	Ko	3	..	22970b
4	1614	38.3	-58 57	9.2	10.2	Ko	1	..	40105b	54	2911	38.9	- 9 32	8.8	9.6	G5	3	..	19137b
5	321	38.4	+78 18	9.5	9.8	F	1	..	37493i	55	2873	38.9	-16 46	9.7	10.5	G5	1	..	41224b
6	1939	38.4	+29 16	8.7	9.7	Ko	1	..	37529i	56	2871	38.9	-16 58	8.6	9.7	K2	5	..	41224b
7	1996	38.4	+25 49	9.5	10.1	Go	1	..	38642i	57	2795	38.9	-19 55	6.70	7.8	Ko	8	5,8	13323b
8	2137	38.4	+14 16	8.9	9.5	G	2	..	37610i	58	6873	38.9	-27 42	10.4	10.5	Ao	1	..	13281b
9	2261	38.4	+ 8 25	8.1	8.7	Go	4	..	37610i	59	4405	38.9	-50 43	8.9	8.4	Ao	5	..	39868b
10	2985	38.4	- 6 22	8.4	8.5	A3	8	..	19137b	60	1450	38.9	-59 29	9.8	10.8	Ko	1	..	40105b
11	2899	38.4	-11 6	9.0	9.1	A2	4	..	21395b	61	1124	38.9	-65 38	7.4	8.2	G5	7	..	40221b
12	2995	38.4	-20 28	9.2	9.9	G5	1	..	41224b	62	1035	38.9	-66 48	9.6	9.7	A2	2	..	40074b
13	7553	38.4	-31 16	9.7	9.2	Fo	3	..	22915b	63	433	38.9	-79 23	9.1	9.7	Go	7	..	21453b
14	5136	38.4	-47 13	9.6	9.6	Ao	3	..	39931b	64	1419	39.0	+52 21	9.3	10.3	Ko	1	..	38650i
15	4910	38.4	-48 39	9.1	8.9	A2	3	..	39931b	65	1942	39.0	+29 10	7.68	7.82	A5	7	..	37741i
16	2443	38.4	-56 35	9.0	10.7	K2	1	..	40105b	66	2252	39.0	+19 28	8.3	8.9	G	1	..	37608i
17	1122	38.4	-65 37	8.9	9.7	G5	1	..	40221b	67	2234	39.0	+ 3 54	8.7	9.2	F8	4	..	19340b
18	1262	38.5	+59 19	9.1	9.9	G5	1	..	38224i	68	2987	39.0	- 7 11	9.7	10.3	Go	1	..	19137b
19	1757	38.5	+44 53	8.37	9.15	G5	2	..	38336i	69	2905	39.0	-10 34	9.5	10.3	G5	2	..	21395b
20	2262	38.5	+18 9	8.5	9.3	G5	2	..	37608i	70	2933	39.0	-14 43	8.6	9.0	F5	5	..	21395b
21	2262	38.5	+ 7 58	8.9	10.3	Ma	..	..	M	71	2998	39.0	-21 8	9.2	9.4	Go	2	..	13145b
22	2352	38.5	+ 0 58	8.39	8.67	Fo	6	..	13393b	72	6877	39.0	-28 0	8.7	9.6	Ao	4	..	13281b
23	2879	38.5	-15 52	8.0	9.0	Ko	4	..	41239b	73	7732	39.0	-29 20	8.0	8.9	G5	5	..	13281b
24	6097	38.5	-35 3	6.41	7.3	B9	9	..	13116b	74	7563	39.0	-31 7	8.9	9.2	K2	2	..	22915b
25	5823	38.5	-39 3	9.0	9.0	A	3	E	39945b	75	7565	39.0	-31 20	10.4	10.4	K2	1	..	22915b
26	5139	38.5	-47 39	9.4	9.0	A2	3	..	39931b	76	7566	39.0	-31 48	8.7	9.6	G5	4	..	22915b
27	2745	38.5	-53 46	7.9	8.3	Fo	7	..	39868b	77	1126	39.0	-65 25	9.1	10.2	K2	1	..	40221b
28	2594	38.5	-54 46	6.17	5.8	B5	7	O, R	44470b	78	1125	39.0	-66 7	8.5	8.8	Fo	3	..	40221b
29	410	38.6	+74 7	8.9	9.5	Go	3	..	37714i	79	1098	39.0	-69 50	9.0	9.1	A2	2	..	22988b
30	2962	38.6	- 2 54	8.6	9.2	Go	3	..	22970b	80	1402	39.1	+56 14	9.3	10.3	Ko	1	..	38224i
31	2881	38.6	-16 10	9.5	10.1	Go	2	..	41224b	81	2125	39.1	+16 53	8.9	9.7	G5	3	..	37608i
32	2889	38.6	-21 52	7.8	8.4	F2	4	..	13323b	82	2262	39.1	+ 3 23	8.9	10.0	K2	2	..	19340b
33	8656	38.6	-24 2	8.9	9.4	Ko	2	..	13145b	83	2881	39.1	- 5 43	8.5	9.9	Ma	5	..	19137b
34	6667	38.6	-32 57	7.34	8.0	A2	7	..	13047b	84	2978	39.1	-12 38	9.1	9.7	Go	2	..	21395b
35	5440	38.6	-40 14	8.64	9.2	Ko	3	..	39945b	85	3000	39.1	-20 42	8.2	8.2	B9	7	O, 7	13323b
36	2237	38.6	-57 33	8.9	9.2	Ao	4	..	40105b	86	2892	39.1	-21 17	9.9	9.6	A2	2	..	13145b
37	1958	38.7	+43 42	8.1	8.5	F5	3	..	38336i	87	6879	39.1	-27 9	8.5	9.9	Ko	1	..	13281b
38	2048	38.7	+35 26	8.38	8.46	A3	4	..	38241i	88	5893	39.1	-35 12	8.39	9.1	K2	1	..	13116b
39	1940	38.7	+29 1	10.2	10.6	F5	1	..	37741i	89	5293	39.1	-41 16	8.7	8.9	Ao	4	..	19157b
40	2242	38.7	+ 2 32	9.9	10.5	Go	1	..	19340b	90	4922	39.1	-48 28	9.8	9.5	Ko	1	..	39931b
41	2880	38.7	- 5 45	9.2	9.3	A3	2	..	19137b	91	4410	39.1	-50 17	9.6	9.5	A2	2	..	39868b
42	2930	38.7	-13 14	8.0	8.8	G5	5	..	21395b	92	4089	39.1	-51 52	8.8	9.8	K5	1	..	39868b
43	5754	38.7	-44 36	9.4	9.9	A3	2	..	39945b	93	2607	39.1	-54 52	9.5	9.5	B9	3	..	39868b
44	5426	38.7	-46 25	7.1	8.7	Ma	5	..	39931b	94	1451	39.1	-59 23	9.8	10.8	Ko	1	..	40105b
45	2440	38.7	-55 29	9.5	9.5	Ao	2	..	40105b	95	1099	39.1	-69 10	8.9	9.7	G5	1	..	40074b
46	1615	38.7	-58 41	9.7	9.7	B8	1	..	40105b	96	434	39.1	-79 47	9.8	10.6	G5	1	..	21453b
47	1148	38.7	-63 9	8.8	10.0	K5	1	..	40221b	97	1801	39.2	+48 32	9.3	9.9	G	1	..	38336i
48	2890	38.8	-21 40	9.0	9.6	G5	2	..	13145b	98	2227	39.2	+ 5 24	8.6	8.9	Fo	3	..	9463b
49	6868	38.8	-28 2	9.9	9.7	Ao	2	..	13281b	99	2243	39.2	+ 2 26	7.9	8.9	Ko	6	..	19340b
50	5896	38.8	-36 31	7.5	9.1	Ma	3	..	18436b	100	2354	39.2	+ 1 32	9.0	10.1	K2	3	..	19340b

THE HENRY DRAPER CATALOGUE.

84300

9^h 39^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2548	39.2	+ 0 10	9.2	9.2	Ao	2	..	22970b	51	2939	39.6	-13 22	9.0	10.0	Ko	2	..	21395b
2	2885	39.2	-16 1	9.2	10.0	G5	3	..	41224b	52	8402	39.6	-24 31	8.5	9.0	F8	4	..	13145b
3	7376	39.2	-26 43	8.9	9.6	F8	2	..	13281b	53	7741	39.6	-29 52	8.1	8.9	G5	5	..	22915b
4	7562	39.2	-28 42	8.1	8.7	Ao	5	..	13281b	54	5454	39.6	-40 43	8.0	8.9	G5	2	..	19157b
5	5552	39.2	-42 49	8.6	8.3	F8	4	..	19157b	55	4633	39.6	-49 44	10.2	9.6	Ao	2	..	39931b
6	5764	39.2	-44 34	9.4	9.3	A2	3	..	39945b	56	2733	39.6	-52 33	9.7	9.8	A2	1	..	39868b
7	2727	39.2	-53 7	8.9	8.9	B9	4	..	39868b	57	2734	39.6	-52 39	8.8	9.2	Fo	3	..	39868b
8	1453	39.2	-59 7	8.5	8.1	B8	6	..	40105b	58	2771	39.6	-53 47	10.1	10.1	Ao	2	..	38408b
9	1452	39.2	-60 6	8.9	9.4	F5	3	..	40105b	59	2618	39.6	-54 19	8.4	7.8	B8	8	..	38408b
10	392	39.3	+75 36	9.6	10.1	F8	2	..	37714i	60	2455	39.6	-55 56	9.6	10.1	F8	2	..	40105b
11	2935	39.3	-13 16	8.4	9.4	Ko	4	..	21395b	61	2254	39.6	-57 39	8.3	8.3	B8	7	..	40105b
12	2698	39.3	-22 19	8.5	9.0	G5	2	..	13323b	62	1456	39.6	-59 38	9.1	9.0	A2	5	..	40105b
13	8672	39.3	-23 40	10.2	9.3	Ao	3	..	13145b	63	2062	39.7	+38 22	8.9	9.9	Ko	1	..	38241i
14	7445	39.3	-25 30	9.2	9.4	G5	1	..	13145b	64	2238	39.7	+ 3 50	8.4	9.4	Ko	4	..	19340b
15	4627	39.3	-49 41	8.3	9.3	Ko	2	..	39931b	65	2948	39.7	-18 5	10.1	10.1	Ao	1	..	41224b
16	2244	39.3	-57 7	8.9	10.9	K5	1	..	40105b	66	7381	39.7	-26 12	9.2	9.0	A3	3	..	13281b
17	1486	39.3	-60 35	9.0	9.1	A2	2	..	40221b	67	6881	39.7	-27 19	4.98	5.40	F5p	..	R	56,86
18	1325	39.3	-61 23	9.5	9.9	F5	1	..	40221b	68	7743	39.7	-29 45	9.7	9.6	Ao	3	..	22915b
19	1036	39.3	-66 17	8.5	8.8	F2	3	..	40221b	69	5458	39.7	-40 48	7.6	8.6	K2	3	..	19157b
20	1802	39.4	+28 14	7.40	7.68	Fo	7	..	37741i	70	4937	39.7	-48 35	9.8	9.2	A5	2	..	39931b
21	2236	39.4	+ 3 49	7.24	8.31	K2	7	..	19340b	71	2773	39.7	-54 2	10.0	10.1	A3	2	..	38408b
22	2964	39.4	- 2 45	9.0	10.0	Ko	1	..	22970b	72	2461	39.7	-56 9	9.8	9.8	Ao	2	..	40105b
23	2712	39.4	-11 25	8.4	9.0	Go	2	..	21395b	73	1129	39.7	-65 58	9.1	10.1	Ko	1	..	40074b
24	2936	39.4	-13 34	8.7	9.0	F2	5	..	21395b	74	1110	39.7	-67 29	9.0	9.0	Ao	4	..	40074b
25	2767	39.4	-19 4	8.6	9.1	F8	4	0,3	41224b	75	1111	39.7	-68 3	7.0	7.0	B8	4	0,9	4821b
26	4094	39.4	-51 35	9.8	9.2	Go	2	..	39868b	76	2242	39.8	- 0 19	9.23	10.01	G5	2	..	22970b
27	4096	39.4	-51 43	9.8	9.6	Go	1	..	39868b	77	2704	39.8	-22 45	9.2	9.6	F8	1	..	13145b
28	2730	39.4	-52 30	9.7	9.8	A2	1	..	39868b	78	6685	39.8	-32 40	8.8	8.6	Ao	3	..	13047b
29	2767	39.4	-53 28	9.0	10.7	Ma	2	..	38408b	79	6115	39.8	-34 38	8.4	9.6	K	1	..	13047b
30	2452	39.4	-55 23	7.36	7.8	G5	8	..	40105b	80	5562	39.8	-43 6	9.0	8.6	F5	3	..	19157b
31	1454	39.4	-59 50	9.1	9.1	B9	4	..	40105b	81	2457	39.8	-55 52	9.5	9.5	Ao	2	..	40105b
32	1285	39.4	-62 14	8.1	8.1	Ao	5	..	40221b	82	1623	39.8	-58 8	9.4	9.4	B9	3	..	40105b
33	1107	39.4	-67 59	8.8	8.8	Ao	3	..	40074b	83	1622	39.8	-58 46	10.1	10.1	Ao	1	..	40105b
34	152	39.4	-87 29	9.1	9.4	Fo	3	..	22238b	84	1457	39.8	-59 52	8.9	8.8	Ao	5	..	40105b
35	1231	39.5	+57 35	5.36	6.71	Ma	7	..	38638i	85	1490	39.8	-60 42	8.2	9.0	Ko	3	..	40221b
36	2175	39.5	+ 7 37	9.6	9.9	F2	3	..	9463b	86	1038	39.8	-66 11	9.1	10.2	K2	1	..	40074b
37	2759	39.5	- 4 12	7.66	7.72	A2	7	..	22970b	87	366	39.9	+76 11	9.5	10.1	Go	2	..	37714i
38	2883	39.5	- 5 58	9.5	10.0	F8	2	..	19137b	88	2253	39.9	+40 17	7.17	7.51	F2	6	..	38241i
39	2979	39.5	-13 0	9.2	10.2	Ko	1	..	21395b	89	2232	39.9	+ 9 11	8.5	9.3	G5	4	..	37610i
40	1619	39.5	-59 5	8.8	9.6	Ko	2	..	40105b	90	2244	39.9	+ 2 20	9.2	10.0	G5	3	..	19340b
41	1488	39.5	-61 5	9.1	10.2	K5	1	..	40221b	91	2989	39.9	- 6 14	8.0	8.0	B9	9	..	19137b
42	1037	39.5	-66 41	9.5	10.0	F8	1	..	40074b	92	2713	39.9	-11 12	8.0	9.0	Ko	5	..	21395b
43	931	39.5	-70 12	9.1	9.1	Ao	2	..	22988b	93	2801	39.9	-19 28	9.2	9.9	Go	1	..	41224b
44	539	39.5	-77 23	9.5	10.6	K2	1	..	21453b	94	2800	39.9	-19 52	9.5	9.6	A2	3	..	41224b
45	1545	39.6	+46 21	8.7	9.9	K5	1	..	38336i	95	7383	39.9	-26 59	8.3	9.3	Ko	3	..	13281b
46	2050	39.6	+34 58	var.	var.	Md	5	R	M	96	5783	39.9	-39 37	8.4	8.9	Ao	4	..	39945b
47	2128	39.6	+23 56	6.77	7.77	Ko	7	..	37608i	97	5566	39.9	-42 18	10.0	9.6	A2	2	..	39945b
48	2094	39.6	+11 16	8.90	10.25	Ma	..	..	M	98	5563	39.9	-42 24	8.9	8.7	F5	4	..	19157b
49	2884	39.6	- 5 38	9.7	10.2	F8	2	..	19137b	99	5563	39.9	-43 47	8.8	9.6	K5	1	..	19157b
50	2885	39.6	- 5 49	9.0	10.0	Ko	6	..	19137b	100	4420	39.9	-50 46	6.46	6.5	B8	6	3,9	42951b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

84400

9^h 39^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4104	39.9	-51 29	9.2	9.2	A2	2	..	39868b	51	436	40.2	-79 54	7.8	7.8	B9	5	0,10	13465b
2	2463	39.9	-57 7	8.5	8.9	A0	6	..	40105b	52	1548	40.3	+46 3	8.7	9.2	F8	2	..	38336i
3	2259	39.9	-57 58	10.1	10.4	F2	1	..	40105b	53	1762	40.3	+45 35	6.80	7.80	Ko	5	..	38336i
4	1492	39.9	-60 46	9.1	9.4	A0	2	..	40221b	54	2096	40.3	+21 48	8.7	9.3	G	2	..	37608i
5	1289	39.9	-62 18	7.8	8.1	F0	7	..	40221b	55	2254	40.3	+19 9	6.92	7.92	Ko	7	..	37608i
6	861	40.0	+63 43	6.94	7.72	G5	6	..	37517i	56	2880	40.3	-16 31	9.7	10.3	Go	2	..	41224b
7	2233	40.0	+9 21	7.9	8.3	F5	7	..	37610i	57	2899	40.3	-21 59	9.2	9.6	Go	1	..	13145b
8	2940	40.0	-13 29	9.5	10.1	Go	2	..	21395b	58	6895	40.3	-27 10	7.02	7.7	F0	3	0,8	7734b
9	2890	40.0	-15 44	9.2	9.6	F5	5	..	41224b	59	7595	40.3	-31 53	11.4	10.7	A0	1	..	22915b
10	2878	40.0	-16 23	8.5	8.5	A0	6	..	41224b	60	5784	40.3	-44 9	8.0	8.4	A2	8	..	19157b
11	2877	40.0	-16 33	9.2	10.2	Ko	3	..	41224b	61	2788	40.3	-53 26	5.71	5.4	A0	..	0,7 R	42951b
12	2705	40.0	-22 18	6.78	8.1	G5	7	..	13323b	62	2470	40.3	-56 30	7.4	7.7	B8	8	..	40105b
13	5369	40.0	-45 16	9.24	9.3	F8	2	..	39945b	63	2467	40.3	-57 0	9.4	9.5	A3	4	..	40105b
14	4425	40.0	-51 4	9.0	9.2	G5	2	..	39868b	64	1464	40.3	-59 34	7.4	7.3	B8	8	..	40105b
15	2632	40.0	-54 34	8.9	9.0	A5	5	..	38408b	65	1061	40.3	-65 3	9.5	9.6	A2	3	..	40221b
16	1042	40.0	-66 28	6.66	6.9	A0	10	..	40221b	66	1102	40.3	-69 8	9.4	9.4	A0	2	..	40074b
17	2095	40.1	+21 18	9.5	10.1	G	1	..	37608i	67	592	40.3	-76 19	10.1	10.2	A5	2	..	21453b
18	2049	40.1	+10 41	7.5	8.7	K5	4	..	37610i	68	1142	40.4	+60 52	9.0	10.0	Ko	2	..	38224i
19	2245	40.1	+2 46	9.0	10.0	Ko	2	..	19340b	69	1804	40.4	+28 14	9.1	9.6	F8	2	..	37741i
20	2551	40.1	+0 0	7.53	8.53	Ko	8	..	13393b	70	2881	40.4	-7 25	9.7	9.7	A0	2	..	19137b
21	2891	40.1	-15 51	9.5	10.5	Ko	1	..	41224b	71	2938	40.4	-14 32	8.7	9.0	F2	4	..	18996b
22	2892	40.1	-16 5	9.5	10.5	Ko	1	..	41224b	72	3006	40.4	-20 51	9.9	9.9	G5	1	..	13145b
23	2952	40.1	-17 14	7.09	8.16	K2	7	..	41224b	73	2708	40.4	-23 1	8.0	8.1	A0	7	..	13323b
24	2770	40.1	-18 59	7.8	8.8	Ko	5	0,3	41224b	74	..	40.4	-23 34	var.	var.	Md	..	R	M
25	2897	40.1	-21 30	9.0	9.6	K5	2	..	13145b	75	7393	40.4	-26 55	8.3	9.0	F5	4	..	13281b
26	2898	40.1	-21 36	9.2	9.6	F5	2	..	13145b	76	7851	40.4	-30 44	9.1	9.5	F0	3	..	22915b
27	2706	40.1	-22 54	7.52	8.7	Ko	4	..	13323b	77	5570	40.4	-43 36	8.9	9.0	B9	5	..	19157b
28	2707	40.1	-23 7	7.82	8.4	G5	4	..	13323b	78	5454	40.4	-46 38	9.1	9.9	Ko	1	..	39931b
29	7387	40.1	-26 26	8.1	9.0	F5	5	..	13281b	79	5170	40.4	-47 17	10.0	9.6	A0	1	..	39931b
30	7578	40.1	-29 5	8.3	9.6	Ko	2	..	13281b	80	5169	40.4	-47 27	9.0	8.8	F8	3	..	39931b
31	7850	40.1	-30 57	8.7	9.0	F5	4	..	22915b	81	864	40.4	-71 44	9.4	9.4	B9	2	..	22988b
32	6318	40.1	-33 24	8.0	8.4	F5	3	..	13047b	82	394	40.5	+75 26	8.97	9.53	G	2	..	37714i
33	4947	40.1	-48 52	8.3	8.9	Ko	3	..	39931b	83	635	40.5	+65 56	9.0	9.8	G5	2	..	38654i
34	4639	40.1	-49 56	8.4	8.4	A3	5	..	39931b	84	2099	40.5	+21 17	8.2	9.0	G5	3	..	37608i
35	2784	40.1	-54 1	8.4	10.1	K5	2	..	38408b	85	2265	40.5	+18 20	7.9	8.7	G5	3	..	37608i
36	2465	40.1	-56 22	9.5	10.3	G5	1	..	40105b	86	2240	40.5	+4 1	8.1	8.6	F8	6	..	13393b
37	1462	40.1	-59 41	9.0	9.9	Ko	1	..	40105b	87	2882	40.5	-8 1	7.30	8.30	Ko	9	..	19137b
38	322	40.2	+78 23	9.6	9.7	A5	1	..	37493i	88	2981	40.5	-12 45	9.2	9.3	A3	3	..	21395b
39	1944	40.2	+29 20	10.0	10.8	G5	1	..	37529i	89	2806	40.5	-19 12	9.9	9.9	F	1	..	41224b
40	1806	40.2	+27 32	7.9	8.9	Ko	3	..	37741i	90	8415	40.5	-24 36	8.7	9.3	Ko	2	..	13145b
41	2129	40.2	+24 14	3.12	3.68	Gop	..	R	2312c	91	7461	40.5	-26 6	8.5	9.7	K5	2	..	13281b
42	2239	40.2	+4 37	10.6	11.0	F5	2	..	13393b	92	5172	40.5	-48 2	9.1	8.7	A5	4	..	39931b
43	2880	40.2	-7 29	9.2	10.3	K2	1	..	19137b	93	4432	40.5	-50 55	7.8	7.8	B3	4	..	39868b
44	2879	40.2	-16 32	9.9	10.5	Go	1	..	41224b	94	2268	40.5	-57 59	9.9	10.7	G5	1	..	40105b
45	7750	40.2	-29 9	8.7	10.1	G5	2	..	13281b	95	1264	40.6	+59 47	8.41	9.41	Ko	3	..	38224i
46	7592	40.2	-31 56	9.2	9.6	Ko	2	..	22915b	96	2101	40.6	+21 47	9.5	10.1	G	2	..	37608i
47	5850	40.2	-39 7	6.70	7.7	A5	10	..	13116b	97	2100	40.6	+20 57	7.44	8.22	G5	5	..	37608i
48	5166	40.2	-47 39	8.3	8.4	A3	5	..	39931b	98	2139	40.6	+13 55	8.9	9.2	F0	2	..	37610i
49	4948	40.2	-48 12	9.6	8.9	A2	3	..	39931b	99	2552	40.6	+0 15	8.5	8.6	A3	5	..	13393b
50	4108	40.2	-51 41	9.8	9.5	A0	3	..	39868b	100	2944	40.6	-13 29	10.1	10.5	F5	2	..	21395b

THE HENRY DRAPER CATALOGUE.

84500

9^b 40^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3009	40.6	-20 12	8.18	9.0	G5	5	0.3	41224b	51	5799	40.9	-44 25	8.6	8.7	Ao	7	..	19157b
2	8691	40.6	-23 39	9.4	9.6	Ko	1	..	13145b	52	5182	40.9	-48 5	6.88	6.8	B8	8	..	39864b
3	7463	40.6	-25 49	9.9	9.7	F8	1	..	13281b	53	4438	40.9	-50 48	9.1	9.0	G5	2	..	39868b
4	7855	40.6	-30 41	9.1	9.6	F8	1	..	22915b	54	4119	40.9	-51 48	9.8	9.2	Ao	2	..	39868b
5	7596	40.6	-31 48	8.9	9.5	Fo	4	..	22915b	55	1466	40.9	-59 29	9.9	9.9	B9	1	..	40105b
6	5793	40.6	-44 56	9.8	9.9	Ao	1	..	39945b	56	1156	40.9	-63 26	9.3	9.3	Ao	4	..	40221b
7	4954	40.6	-48 28	9.8	9.2	Fo	2	..	39864b	57	1134	40.9	-65 32	9.6	9.6	Ao	2	..	40221b
8	2805	40.6	-53 38	10.3	10.4	A5	2	..	38408b	58	736	41.0	+65 22	7.08	7.50	F5	8	..	37517i
9	2804	40.6	-53 46	9.2	9.5	Fo	3	..	38408b	59	2044	41.0	+31 36	9.1	10.1	Ko	1	..	37529i
10	2644	40.6	-54 21	9.5	9.5	Ao	2	..	38408b	60	1808	41.0	+27 23	8.7	8.8	A2	3	..	37741i
11	2642	40.6	-54 36	8.8	8.9	A2	5	..	38408b	61	2090	41.0	+12 17	5.87	7.05	K5	8	..	37610i
12	1625	40.6	-58 12	9.2	9.3	A2	2	..	40105b	62	2243	41.0	+4 27	9.2	9.3	A3	3	..	13393b
13	1113	40.6	-67 59	8.3	9.7	Ma	2	..	40074b	63	2300	41.0	-2 8	7.97	8.97	Ko	5	..	22970b
14	2241	40.7	+4 6	9.2	9.7	F8	3	..	13393b	64	2771	41.0	-19 7	8.4	9.0	F2	6	3,3	41224b
15	2299	40.7	-1 26	7.9	8.3	F5	6	..	22970b	65	2811	41.0	-19 14	9.0	9.3	F2	3	3,2	41224b
16	2890	40.7	-6 5	9.2	10.4	K5	1	..	19137b	66	6907	41.0	-27 57	8.1	9.0	Fo	6	..	13281b
17	2809	40.7	-19 52	8.2	8.7	Fo	6	5.4	41224b	67	7758	41.0	-29 45	6.50	6.1	B2	4	..	7734b
18	7597	40.7	-31 40	9.2	9.6	A2	3	..	22915b	68	6335	41.0	-33 13	8.4	9.5	Ko	1	..	13047b
19	5915	40.7	-37 6	8.7	8.1	A2	6	..	13116b	69	5314	41.0	-41 49	9.3	9.5	G5	1	..	19157b
20	4645	40.7	-49 15	10.0	9.2	B9	2	..	39931b	70	5313	41.0	-42 3	10.0	9.5	A5	2	..	19157b
21	4434	40.7	-50 51	9.4	9.2	A	1	..	39868b	71	4440	41.0	-50 22	8.8	8.9	Ao	4	2,3	39864b
22	4433	40.7	-51 3	9.6	9.0	Ao	2	..	39868b	72	2475	41.0	-55 10	9.16	9.0	F2	4	..	38408b
23	2806	40.7	-53 17	8.0	8.0	B3	5	..	39868b	73	2477	41.0	-56 55	10.7	10.7	Ao	1	..	40105b
24	1465	40.7	-59 58	8.94	8.4	B8	4	..	40105b	74	2277	41.0	-57 28	8.9	8.6	B8	5	..	40105b
25	363	40.7	-81 18	8.58	8.4	A2	6	2.4	20869b	75	1048	41.0	-66 21	9.7	9.8	A3	2	..	40074b
26	1805	40.8	+48 30	8.5	8.6	A3	3	..	38336i	76	1233	41.1	+57 19	9.3	10.3	Ko	1	..	38224i
27	1961	40.8	+42 52	9.1	9.9	G5	1	..	38336i	77	1809	41.1	+27 38	8.6	9.2	Go	2	..	38646i
28	2969	40.8	-2 35	9.0	9.8	G5	1	..	22970b	78	2772	41.1	-18 14	8.0	8.8	G5	6	..	41224b
29	2912	40.8	-10 54	7.6	8.7	K2	5	..	21395b	79	7593	41.1	-29 5	7.6	9.0	Ko	5	..	13281b
30	2941	40.8	-14 58	9.7	10.5	G5	1	..	41224b	80	6709	41.1	-32 13	6.94	7.5	F5	8	..	22915b
31	2806	40.8	-15 55	10.4	10.4	Ao	2	..	41224b	81	6337	41.1	-33 21	8.1	8.3	Ao	4	..	13047b
32	2645	40.8	-54 29	10.1	10.1	Ao	2	..	38408b	82	5475	41.1	-40 43	8.7	8.6	Ao	7	..	19157b
33	2474	40.8	-56 23	8.9	10.1	K2	2	..	40105b	83	5463	41.1	-47 1	7.9	7.8	F2	6	..	39931b
34	2273	40.8	-57 11	8.0	8.6	F5	6	..	40105b	84	4126	41.1	-51 20	9.6	9.2	B9	4	..	39868b
35	2274	40.8	-57 42	8.2	9.5	K2	4	..	40105b	85	4125	41.1	-51 49	9.1	8.7	B9	4	..	39868b
36	1626	40.8	-58 44	8.7	9.0	Go	4	..	40105b	86	2479	41.1	-57 0	9.3	10.3	Ko	1	..	40105b
37	857	40.8	-73 7	8.2	8.2	Ao	4	..	22988b	87	2282	41.1	-57 11	9.5	9.5	B9	3	..	40105b
38	170	40.8	-86 43	9.2	9.2	Ao	3	..	13459b	88	1468	41.1	-59 25	7.7	7.8	B9	7	..	40105b
39	636	40.9	+66 15	9.0	10.0	Ko	2	..	38654i	89	2895	41.2	-5 37	8.6	9.1	F8	7	..	19137b
40	1543	40.9	+51 25	8.7	9.5	G5	2	E	38638i	90	2983	41.2	-12 46	8.6	9.2	Go	3	..	21395b
41	1993	40.9	+35 49	8.9	9.3	F5	2	..	38241i	91	3013	41.2	-20 33	9.5	9.9	F5	1	..	13145b
42	2181	40.9	+7 10	5.99	7.34	Ma	7	..	37610i	92	2901	41.2	-21 12	9.7	9.9	Go	1	..	13145b
43	2242	40.9	+3 54	8.5	8.5	Ao	6	..	13393b	93	8428	41.2	-25 0	9.1	9.7	Go	2	..	15600b
44	2970	40.9	-2 38	8.4	8.7	F2	5	..	22970b	94	5587	41.2	-42 35	8.9	8.9	A2	5	..	19157b
45	2957	40.9	-17 28	9.5	9.8	Fo	3	..	41224b	95	5808	41.2	-44 58	9.64	9.9	A2	2	..	39945b
46	7465	40.9	-25 15	8.9	9.3	G5	2	..	13145b	96	5389	41.2	-45 42	8.8	9.9	K5	2	..	39864b
47	7464	40.9	-25 20	8.9	9.7	G5	1	..	13145b	97	4649	41.2	-49 14	9.8	9.2	Fo	2	..	39931b
48	5870	40.9	-38 8	8.5	8.4	Ao	5	..	13116b	98	4652	41.2	-49 33	7.7	8.7	G5	5	..	39931b
49	5582	40.9	-42 48	10.9	9.8	Ao	1	..	39945b	99	2479	41.2	-55 33	9.0	10.1	Ko	2	..	38408b
50	5583	40.9	-42 54	10.9	9.8	Ao	1	0.1	39945b	100	2283	41.2	-57 35	8.9	9.3	F2	3	..	40105b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

84600

9^h 41^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1628	41.2	-58 57	10.1	10.1	B8	1	..	40105b	51	6132	41.6	-34 11	8.2	9.9	K5	2	..	22915b
2	1469	41.2	-59 34	9.4	10.8	Ma	1	..	40105b	52	4459	41.6	-50 17	9.1	9.2	F8	1	..	39864b
3	976	41.2	-68 53	8.6	9.4	G5	3	..	40074b	53	4130	41.6	-51 54	9.6	9.0	Ao	2	..	39868b
4	1104	41.2	-69 55	9.0	9.4	F5	2	..	40074b	54	2658	41.6	-54 51	9.4	9.5	A2	4	..	38408b
5	442	41.2	-79 18	9.0	10.1	K2	4	..	21453b	55	2484	41.6	-55 22	9.4	9.5	A2	2	..	38408b
6	2267	41.3	+18 36	7.9	8.5	Go	3	..	37608i	56	2485	41.6	-55 33	8.2	7.8	B8	7	..	38408b
7	2246	41.3	+2 15	5.69	6.03	F2	10	..	13393b	57	1496	41.6	-60 24	10.4	10.5	A2	1	..	40105b
8	2812	41.3	-19 58	9.2	10.5	Ko	1	..	41224b	58	395	41.7	+75 4	9.07	9.63	G	2	..	37714i
9	2902	41.3	-21 18	8.8	9.6	Ko	2	..	13145b	59	1329	41.7	+54 44	7.26	7.54	Fo	6	..	38638i
10	6041	41.3	-37 17	10.9	8.5	Ko	5	..	13116b	60	1962	41.7	+42 54	8.1	8.5	F5	2	..	38336i
11	5391	41.3	-46 3	9.0	9.3	Ao	4	..	39864b	61	2026	41.7	+16 0	8.7	9.1	F5	2	..	37610i
12	4962	41.3	-49 2	7.8	8.9	F8	4	..	39864b	62	2248	41.7	+2 46	8.5	9.5	Ko	5	..	13393b
13	4654	41.3	-50 2	8.6	9.5	K5	1	..	39864b	63	2246	41.7	-0 50	9.2	9.8	Go	1	..	22970b
14	1629	41.3	-58 43	9.1	9.0	B9	3	..	40105b	64	2977	41.7	-2 44	7.40	7.74	F2	8	..	22970b
15	1907	41.4	+33 15	7.87	9.22	Ma	2	..	37741i	65	2976	41.7	-3 4	8.7	8.8	A5	3	..	22970b
16	2247	41.4	+2 11	7.9	8.4	F8	6	..	13393b	66	2996	41.7	-6 28	9.5	9.6	A2	1	..	19137b
17	2898	41.4	-5 34	9.7	11.1	Ma	1	..	19137b	67	2920	41.7	-9 47	8.26	8.54	Fo	5	..	18996b
18	2993	41.4	-6 51	10.1	10.1	Ao	1	..	19137b	68	2903	41.7	-21 58	9.0	9.7	Go	1	..	13145b
19	2760	41.4	-8 49	9.1	9.9	G5	1	..	19137b	69	2904	41.7	-22 11	7.41	8.4	Ko	5	..	13323b
20	2813	41.4	-19 16	6.97	7.7	Ao	8	0,9	13145b	70	6916	41.7	-27 23	8.7	10.4	Ko	1	..	13281b
21	3014	41.4	-20 54	9.7	9.9	G5	1	..	13145b	71	6918	41.7	-28 7	9.1	9.7	F8	2	..	13281b
22	8431	41.4	-24 55	9.1	10.5	K5	1	..	15600b	72	5926	41.7	-36 45	9.0	9.6	A2	1	..	13116b
23	7401	41.4	-26 20	8.7	9.3	K5	2	..	13281b	73	5325	41.7	-41 12	7.6	7.4	B9	8	..	19157b
24	6043	41.4	-37 21	7.5	8.4	F8	8	..	13116b	74	4657	41.7	-49 21	7.9	8.1	F8	6	..	39931b
25	5593	41.4	-43 4	10.0	9.8	A5	1	..	19157b	75	2487	41.7	-56 0	8.6	9.8	K5	2	..	38408b
26	5592	41.4	-43 8	9.8	9.3	Ao	4	..	19157b	76	2491	41.7	-57 7	7.4	7.8	G5	7	..	40105b
27	4963	41.4	-49 2	7.8	8.7	F8	5	..	39864b	77	979	41.7	-68 33	9.1	9.1	Ao	3	..	40074b
28	2824	41.4	-53 59	8.8	9.8	K2	3	..	38408b	78	607	41.7	-75 13	9.1	10.1	Kop	2	R	21453b
29	2483	41.4	-55 13	9.36	9.5	B9	3	..	38408b	79	1911	41.8	+30 2	8.1	9.1	Ko	2	..	37741i
30	1051	41.4	-66 19	9.8	9.8	A	1	..	40074b	80	2133	41.8	+24 6	6.72	7.72	Ko	7	..	37608i
31	866	41.4	-71 44	6.87	7.0	B9	8	..	22988b	81	2182	41.8	+7 33	7.9	9.0	K2	3	..	37610i
32	444	41.4	-79 56	9.6	10.6	Ko	2	..	21453b	82	2302	41.8	-1 26	8.3	9.1	G5	3	..	22970b
33	1209	41.5	+60 34	7.24	8.24	Ko	6	..	38224i	83	2770	41.8	-3 32	9.7	10.3	Go	1	..	22970b
34	1880	41.5	+49 31	8.1	9.2	K2	3	..	38336i	84	2717	41.8	-4 45	8.4	9.4	Ko	4	..	22970b
35	2557	41.5	-0 9	8.83	9.25	F5	5	..	13393b	85	2997	41.8	-6 40	8.6	9.6	Ko	3	..	19137b
36	2946	41.5	-14 8	8.0	9.1	K2	5	..	18996b	86	2905	41.8	-21 52	8.6	9.3	G5	3	..	13145b
37	2898	41.5	-15 59	8.6	8.7	A2	5	..	41224b	87	5917	41.8	-35 24	6.80	7.9	F5	8	..	13116b
38	2814	41.5	-19 59	9.5	9.7	A5	3	0,1	41224b	88	2836	41.8	-53 47	7.2	7.2	A2	3	2,9	42951b
39	7471	41.5	-25 48	8.1	9.1	Ko	5	..	13281b	89	2294	41.8	-57 12	10.1	10.4	Fo	1	..	40105b
40	6915	41.5	-27 22	9.9	9.7	A5	2	..	13281b	90	2293	41.8	-57 31	9.5	9.5	B8	2	..	40105b
41	5593	41.5	-43 16	9.6	9.6	A2	3	..	19157b	91	1473	41.8	-59 32	8.7	8.7	B9	3	..	40105b
42	5193	41.5	-47 54	10.0	9.0	B9	2	..	39864b	92	1472	41.8	-59 41	10.2	10.2	Ao	1	..	40105b
43	5194	41.5	-48 3	8.2	8.5	F2	4	..	39864b	93	1159	41.8	-63 48	9.2	9.6	F5	2	..	40221b
44	4456	41.5	-50 13	9.33	9.2	Ao	2	..	39864b	94	1052	41.8	-66 34	8.6	8.9	Fo	3	..	40221b
45	2656	41.5	-54 38	9.1	9.3	F2	5	..	38408b	95	1106	41.8	-69 15	9.1	9.1	Ao	3	..	40074b
46	1331	41.5	-61 59	9.1	9.9	Ao	2	..	40221b	96	1105	41.8	-69 49	8.8	10.0	K5	1	..	40074b
47	367	41.6	+76 36	9.1	9.7	G	2	..	37714i	97	373	41.8	-80 56	10.4	10.4	Ao	2	E	21453b
48	2259	41.6	+40 44	9.1	9.5	F5	1	..	38241i	98	365	41.8	-81 15	6.76	7.9	Ko	..	0,7-	56,127
49	2019	41.6	+37 46	8.7	9.5	G5	2	..	38241i	99	617	41.9	+67 2	8.1	8.4	F2	5	..	37517i
50	6718	41.6	-32 13	9.8	10.1	Fo	2	..	22915b	100	2067	41.9	+38 4	8.8	9.4	Go	2	..	38241i

THE HENRY DRAPER CATALOGUE.

84700

9^h 41^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2239	41.9	+ 9 2	6.74	7.02	Fo	7	..	37610i	51	2922	42.2	- 10 4	7.06	7.40	F2	9	..	18996b
2	2245	41.9	+ 3 53	8.3	9.3	Ko	4	..	13393b	52	7887	42.2	- 30 49	7.71	8.6	Ko	4	..	22915b
3	2558	41.9	- 0 9	7.98	8.48	F8	8	..	13393b	53	7888	42.2	- 30 54	9.7	9.6	Go	2	..	22915b
4	2979	41.9	- 2 54	8.2	9.3	K2	5	..	22970b	54	6349	42.2	- 33 58	9.1	9.6	Ao	4	..	22915b
5	2771	41.9	- 3 50	8.0	9.0	Ko	3	..	22970b	55	5923	42.2	- 35 19	10.0	9.6	Ao	2	..	22915b
6	2718	41.9	- 11 28	7.8	8.8	Ko	6	..	18996b	56	5486	42.2	- 46 43	9.0	8.8	Ao	5	..	39864b
7	7477	41.9	- 25 13	9.05	9.0	Go	5	..	13145b	57	4140	42.2	- 51 49	7.6	7.8	F2	6	..	39868b
8	7476	41.9	- 25 31	9.1	9.1	F5	4	..	13145b	58	2843	42.2	- 53 30	9.4	9.5	A3	4	..	38408b
9	7411	41.9	- 26 49	6.94	7.8	F2	3	2,7	7734b	59	1635	42.2	- 59 1	7.9	8.2	G5	6	..	40105b
10	7769	41.9	- 30 7	9.1	9.6	Ko	1	..	22915b	60	936	42.2	- 71 0	8.7	9.8	K2	1	..	40074b
11	5826	41.9	- 44 11	9.2	9.3	Fo	3	..	19157b	61	594	42.2	- 77 1	10.2	10.2	A	3	..	21453b
12	5401	41.9	- 45 28	8.0	8.4	Fo	6	..	39864b	62	1210	42.3	+ 60 28	8.7	9.2	F8	2	..	38224i
13	5483	41.9	- 46 53	9.1	9.0	F5	3	..	39864b	63	1907	42.3	+ 44 0	7.90	8.68	G5	3	..	38336i
14	4659	41.9	- 49 10	9.8	9.3	A2	1	..	39864b	64	2104	42.3	+ 10 51	7.57	7.71	A5	6	..	37610i
15	2771	41.9	- 52 47	8.7	9.5	G5	2	..	38408b	65	2247	42.3	- 0 32	8.3	8.7	F5	5	..	22970b
16	2772	41.9	- 52 59	8.1	8.7	G5	5	..	38408b	66	2303	42.3	- 2 11	8.82	9.82	Ko	2	..	22970b
17	2667	41.9	- 55 6	10.1	10.1	Ao	2	..	38408b	67	2763	42.3	- 8 43	9.0	10.0	Ko	2	..	19137b
18	1474	41.9	- 59 19	9.6	9.7	A2	2	..	40105b	68	2918	42.3	- 10 16	7.11	7.53	F5	10	..	18996b
19	630	41.9	- 74 51	9.8	10.2	F5	2	..	21453b	69	2949	42.3	- 13 34	8.8	10.0	K5	1	..	18996b
20	546	41.9	- 77 58	10.2	10.2	Ao	3	..	21453b	70	2885	42.3	- 16 21	8.7	9.7	Ko	2	..	41224b
21	445	41.9	- 79 13	9.1	10.2	K2	3	..	21453b	71	2821	42.3	- 19 54	8.6	9.6	F5	4	5,3	41224b
22	2095	42.0	+ 12 3	6.37	6.65	Fo	8	..	37610i	72	7607	42.3	- 29 1	8.5	8.7	A2	6	..	13281b
23	2772	42.0	- 3 28	9.2	9.2	Ao	2	..	22970b	73	6730	42.3	- 33 2	10.4	10.1	Ao	2	..	22915b
24	2889	42.0	- 8 3	9.5	10.5	Ko	1	..	19137b	74	5411	42.3	- 45 27	6.86	7.7	G5	7	..	39864b
25	2900	42.0	- 16 5	7.8	8.3	F8	7	..	41224b	75	5214	42.3	- 47 9	8.8	9.0	Fo	4	..	39864b
26	6724	42.0	- 32 25	9.6	9.8	Ao	2	..	22915b	76	2850	42.3	- 53 56	10.2	10.3	A3	1	..	38408b
27	6725	42.0	- 33 3	6.96	7.3	Ao	7	..	13047b	77	2500	42.3	- 55 17	9.1	9.0	B8	4	..	38408b
28	5329	42.0	- 41 19	10.2	9.5	G5	1	..	19157b	78	1163	42.3	- 63 53	9.4	9.5	A5	3	..	40221b
29	5600	42.0	- 43 13	7.8	8.5	Ko	7	..	19157b	79	1234	42.4	+ 57 42	7.9	8.9	Ko	3	..	38638i
30	2840	42.0	- 53 50	9.0	8.4	B9	5	..	38408b	80	2147	42.4	+ 13 58	8.1	9.1	Ko	4	..	37610i
31	2669	42.0	- 54 18	8.7	9.5	K2	4	..	38408b	81	2054	42.4	+ 10 32	7.6	8.4	G5	4	..	37610i
32	1301	42.0	- 62 37	9.4	9.4	Ao	2	..	40221b	82	2183	42.4	+ 7 17	8.9	9.2	F2	4	..	9463b
33	1053	42.0	- 66 11	9.8	9.8	Ao	1	..	40074b	83	2559	42.4	+ 0 43	9.39	9.89	F8	2	..	13393b
34	980	42.0	- 68 8	8.1	9.1	Ko	4	..	40074b	84	2999	42.4	- 7 0	9.5	10.6	K2	1	..	19137b
35	446	42.0	- 79 56	8.7	8.7	B9	7	..	21453b	85	8726	42.4	- 23 40	9.1	9.9	Ko	2	..	13145b
36	1330	42.1	+ 54 26	8.5	9.6	K2	1	..	38638i	86	8449	42.4	- 24 13	9.1	9.1	F2	4	3,2	15600b
37	1551	42.1	+ 46 29	5.20	5.76	Go	10	..	38336i	87	7609	42.4	- 28 31	8.3	9.0	A2	4	..	22915b
38	2011	42.1	+ 41 1	8.6	9.0	F5	3	..	38241i	88	5496	42.4	- 40 40	9.4	9.6	Ko	2	..	39945b
39	2108	42.1	+ 21 5	7.8	8.1	Fo	7	..	37608i	89	4481	42.4	- 50 25	8.2	8.9	Ko	3	2,3	39864b
40	2102	42.1	+ 11 18	7.81	8.81	Ko	2	..	37610i	90	4146	42.4	- 51 16	9.6	9.3	Fo	2	..	39868b
41	2773	42.1	- 4 1	8.6	9.8	K5	2	..	22970b	91	2498	42.4	- 56 17	8.6	8.7	B8	3	..	40105b
42	5491	42.1	- 40 11	7.98	8.6	F8	5	..	19157b	92	1636	42.4	- 58 17	9.3	9.3	Ao	2	..	40105b
43	5832	42.1	- 44 15	8.2	8.7	Ao	7	..	19157b	93	1497	42.4	- 60 35	8.7	10.8	K5	1	..	40221b
44	5485	42.1	- 46 47	9.6	9.6	Ao	2	..	39864b	94	1076	42.4	- 64 12	8.3	9.5	K5	4	..	40221b
45	4666	42.1	- 49 30	11.5	9.3	Ao	2	..	39864b	95	1078	42.4	- 64 21	8.4	9.5	K2	4	..	40221b
46	302	42.2	+ 80 8	8.9	9.9	Ko	2	..	37493i	96	1118	42.4	- 67 14	9.7	9.8	A2	2	..	40074b
47	582	42.2	+ 70 40	8.1	8.4	Fo	4	..	37706i	97	1108	42.4	- 69 20	8.2	8.2	Ao	4	..	22988b
48	2096	42.2	+ 11 54	var.	var.	Md	..	o, I R	M	98	1109	42.4	- 69 50	8.9	9.7	G5	1	..	40074b
49	2249	42.2	+ 2 47	8.1	8.7	Go	8	..	13393b	99	610	42.4	- 75 28	8.7	8.8	A2	6	..	21453b
50	2902	42.2	- 5 21	8.55	8.83	Fo	6	..	19137b	100	1908	42.5	+ 44 8	7.76	7.82	A2	5	..	38336i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

84800

9^h 42^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1948	42.5	+29 0	7.7	7.7	Ao	7	..	37741i	51	1171	42.9	-64 2	8.0	8.0	B8	7	..	40221b
2	2887	42.5	-16 44	7.03	8.21	K5	7	..	41224b	52	1144	42.9	-65 44	9.7	9.8	A2	2	..	40074b
3	2907	42.5	-21 14	7.6	8.4	F8	6	3.5	13145b	53	860	42.9	-72 51	8.1	9.3	K5	1	..	40074b
4	8451	42.5	-24 47	9.2	9.9	K2	2	0.1	15600b	54	2262	43.0	+19 47	9.10	9.88	G5	2	..	37608i
5	5497	42.5	-40 13	7.74	8.0	A3	7	..	19157b	55	2234	43.0	+5 26	8.6	9.7	K2	3	..	13393b
6	5606	42.5	-43 1	10.5	9.8	Ao	3	..	19157b	56	2722	43.0	-12 7	8.4	9.5	K2	2	..	18996b
7	2782	42.5	-52 28	9.1	9.5	A3	3	..	38408b	57	8463	43.0	-24 51	8.5	9.3	G5	3	..	13145b
8	2502	42.5	-56 33	8.3	8.9	G5	4	..	40105b	58	7786	43.0	-29 42	9.5	10.4	Ko	1	..	22915b
9	2499	42.5	-56 44	6.58	6.5	B8	..	..	56,127	59	6149	43.0	-34 45	9.4	9.6	Ao	3	..	22915b
10	1333	42.5	-62 3	var.	var.	Go	..	R	28,203	60	4674	43.0	-50 7	7.53	8.1	A2	7	..	39864b
11	1167	42.5	-63 42	9.4	9.5	A2	3	..	40221b	61	2865	43.0	-53 41	8.7	8.9	B2	6	..	38408b
12	637	42.6	+66 4	6.29	6.57	Fo	10	..	37517i	62	1643	43.0	-58 17	8.7	9.1	F2	3	..	40105b
13	1687	42.6	+50 39	8.8	8.8	A	2	E	38638i	63	1641	43.0	-58 32	8.1	9.3	G5	3	..	40105b
14	2764	42.6	-8 54	9.5	10.6	K2	2	..	19137b	64	1644	43.0	-58 35	8.0	8.4	Ko	7	0.1	40105b
15	5334	42.6	-41 21	10.4	9.5	A2	2	..	19157b	65	1307	43.0	-62 36	10.1	10.1	Ao	1	..	40221b
16	5846	42.6	-44 18	5.68	5.9	B3	..	0.8	56,127	66	1061	43.0	-66 21	8.0	8.0	B9	8	..	40221b
17	5496	42.6	-46 55	10.2	10.1	G5	1	..	39864b	67	639	43.0	-74 5	8.3	9.3	Ko	5	..	21453b
18	4983	42.6	-48 40	8.3	9.2	K2	2	..	39864b	68	1361	43.1	+53 22	7.26	8.26	Ko	6	..	38638i
19	2302	42.6	-57 52	8.2	8.3	A2	7	..	40105b	69	2021	43.1	+36 59	8.1	8.6	F8	5	..	38241i
20	396	42.7	+74 54	8.32	9.32	Ko	3	..	37714i	70	2035	43.1	+34 35	7.10	7.18	A3	6	..	38241i
21	2247	42.7	+4 41	8.90	10.08	K5	1	..	13393b	71	1917	43.1	+29 57	8.91	9.91	Ko	1	..	37529i
22	2889	42.7	-16 24	9.0	9.8	G5	2	..	41224b	72	2155	43.1	+25 2	8.1	8.1	Ao	5	..	38642i
23	7894	42.7	-30 31	8.5	9.2	Ko	3	..	22915b	73	2058	43.1	+9 50	8.72	9.14	F5	2	..	37610i
24	7895	42.7	-30 48	6.79	7.3	Ao	9	..	22915b	74	2895	43.1	-7 42	8.1	9.5	Ma	5	..	19137b
25	7632	42.7	-32 0	9.4	10.8	F8	3	..	22915b	75	7425	43.1	-26 38	8.9	9.9	Ko	2	..	15600b
26	5906	42.7	-38 52	7.42	8.1	Fo	8	..	13116b	76	7641	43.1	-31 47	8.5	9.6	Go	2	..	22915b
27	1638	42.7	-59 1	8.4	8.4	B8	5	..	40105b	77	2793	43.1	-52 30	8.8	9.2	B	4	..	38408b
28	514	42.8	+70 53	8.9	9.9	Ko	2	..	37706i	78	2512	43.1	-56 19	10.3	10.4	A2	1	..	40105b
29	1707	42.8	+47 6	8.7	8.8	A2	2	..	38336i	79	2149	43.2	+23 3	8.1	9.1	Ko	4	..	37608i
30	1909	42.8	+44 39	8.72	9.28	Go	2	..	38336i	80	2780	43.2	-3 59	9.2	10.2	Ko	1	..	22970b
31	1995	42.8	+36 12	9.1	9.6	F8	2	..	38241i	81	2908	43.2	-5 26	7.90	8.97	K2	7	..	19137b
32	2248	42.8	+4 33	8.90	9.97	K2	1	..	13393b	82	3003	43.2	-6 47	7.11	7.09	B9	10	..	19137b
33	2721	42.8	-11 36	8.6	8.7	A2	5	..	18996b	83	2926	43.2	-10 24	9.0	9.8	G5	2	..	18996b
34	7782	42.8	-29 21	10.4	10.1	Ao	3	..	22915b	84	2724	43.2	-12 5	8.8	9.4	Go	2	..	18996b
35	7781	42.8	-29 49	9.2	9.6	Ko	2	..	22915b	85	2953	43.2	-13 50	9.2	10.3	K2	1	..	18996b
36	4488	42.8	-50 54	9.4	9.2	Ao	1	..	39864b	86	2951	43.2	-14 28	8.6	8.6	Ao	7	..	18996b
37	2507	42.8	-55 20	8.2	9.5	K2	3	..	38408b	87	6935	43.2	-27 55	7.34	8.1	F8	8	..	13281b
38	2507	42.8	-56 30	9.1	9.8	G5	2	..	40105b	88	7788	43.2	-29 14	7.9	8.6	Ko	5	..	13281b
39	2509	42.8	-56 43	8.9	10.1	Ko	2	..	40105b	89	5231	43.2	-47 15	8.4	9.3	F8	3	..	39864b
40	2012	42.9	+41 32	8.3	9.3	K	1	..	38241i	90	1145	43.2	-65 39	9.0	9.0	Ao	4	..	40221b
41	2261	42.9	+19 16	8.4	9.0	Go	3	..	37608i	91	938	43.2	-70 17	8.5	8.8	F2	4	..	22988b
42	2248	42.9	-0 45	9.2	9.6	F5	2	..	22970b	92	462	43.2	-78 33	9.5	10.5	Ko	1	..	21453b
43	2894	42.9	-8 1	8.8	9.3	F8	5	..	19137b	93	1709	43.3	+46 53	8.3	9.3	Ko	2	..	38336i
44	8459	42.9	-24 55	9.4	9.6	Ao	3	..	13145b	94	2250	43.3	+4 32	10.6	11.4	G5	1	..	13393b
45	5506	42.9	-40 56	8.7	9.6	Ko	1	..	19157b	95	2249	43.3	-1 9	9.2	9.5	Fo	3	..	22970b
46	4988	42.9	-49 3	10.0	9.5	Ao	1	..	39864b	96	2926	43.3	-9 43	8.8	9.8	Ko	1	..	18996b
47	4673	42.9	-49 27	9.1	9.0	Go	3	..	39864b	97	2952	43.3	-14 57	9.5	10.5	Ko	2	..	41224b
48	2788	42.9	-52 30	9.1	9.5	A2	3	..	38408b	98	2902	43.3	-15 34	8.7	9.0	Fo	4	..	41224b
49	2789	42.9	-52 36	9.8	9.8	Ao	1	..	38408b	99	7644	43.3	-31 10	9.7	9.5	G5	2	..	22915b
50	1640	42.9	-58 20	6.28	7.0	F5	7	..	34089b	100	6749	43.3	-32 47	6.78	7.7	G5	8	..	22915b

THE HENRY DRAPER CATALOGUE.

84900

9^h 43^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6367	43.3	-33 25	9.4	9.5	Ao	3	..	22915b	51	2099	43.6	+12 35	8.22	8.56	F2	3	..	37610i
2	6072	43.3	-37 16	7.6	8.4	F8	8	..	13116b	52	2268	43.6	+ 8 46	7.9	8.3	F5	5	..	37610i
3	5513	43.3	-40 59	8.0	8.9	G5	2	..	19157b	53	2268	43.6	+ 3 3	9.6	10.6	Ko	2	..	13393b
4	4162	43.3	-51 47	9.2	9.0	B9	3	..	39868b	54	7431	43.6	-26 33	8.9	9.7	F8	2	..	15600b
5	2796	43.3	-52 59	9.0	10.0	Ko	1	..	38408b	55	6940	43.6	-27 31	8.1	8.7	F5	5	..	13281b
6	2870	43.3	-53 22	9.3	10.1	G5	1	..	38408b	56	6941	43.6	-27 48	9.1	9.0	Ao	3	..	13281b
7	2700	43.3	-54 53	8.5	8.9	Ao	5	..	38408b	57	7908	43.6	-30 9	9.7	10.1	G5	1	..	22915b
8	2514	43.3	-56 7	8.4	8.6	A2	6	..	38408b	58	6373	43.6	-33 38	8.7	9.6	G5	3	..	22915b
9	983	43.3	-68 35	9.4	9.4	A	1	..	40074b	59	5626	43.6	-42 48	8.5	9.2	K2	3	..	19157b
10	1112	43.3	-69 18	7.08	7.2	Ao	7	..	22988b	60	5237	43.6	-47 9	8.6	8.4	Ao	4	..	39864b
11	1211	43.4	+60 40	8.9	9.9	Ko	1	..	38224i	61	2311	43.6	-57 17	10.3	10.3	Ao	1	..	40105b
12	1424	43.4	+51 53	8.1	9.3	K5	3	..	38638i	62	863	43.6	-72 39	8.2	9.4	K5	2	..	40074b
13	1549	43.4	+51 36	9.0	9.0	Ao	3	..	38638i	63	643	43.6	-73 26	7.6	8.1	F8	7	..	21453b
14	2022	43.4	+37 14	6.92	8.10	K5	6	..	38241i	64	..	43.6	-76 59	..	..	K	1	..	21453b
15	2160	43.4	+12 59	8.66	9.44	G5	1	..	37610i	65	2049	43.7	+42 1	9.1	9.1	Ao	3	..	38241i
16	2782	43.4	- 3 56	8.8	10.0	K5	2	..	22970b	66	2158	43.7	+25 40	9.2	10.2	Ko	1	E	38646b
17	2970	43.4	-17 22	9.2	9.3	A5	2	..	41224b	67	2265	43.7	+19 8	8.3	8.9	Go	3	..	37608i
18	2968	43.4	-17 54	8.4	8.7	Fo	5	..	41224b	68	2114	43.7	+15 5	8.1	8.1	Ao	5	..	37610i
19	2787	43.4	-18 27	8.6	9.0	F5	5	..	41224b	69	2363	43.7	+ 1 15	9.2	9.8	Go	2	..	13393b
20	2828	43.4	-19 38	10.9	9.9	A	1	..	41224b	70	2362	43.7	+ 1 8	9.4	9.9	F8	2	..	13393b
21	8469	43.4	-24 58	9.9	9.7	Ao	2	..	13145b	71	2986	43.7	- 2 14	8.5	8.4	B5	7	..	22970b
22	6936	43.4	-27 8	7.6	8.2	Ao	7	E	13145b	72	2928	43.7	-11 4	9.0	10.0	Ko	1	..	18996b
23	7633	43.4	-28 29	9.1	9.3	Go	2	..	13281b	73	8473	43.7	-24 15	9.1	9.9	Ko	1	..	13145b
24	7645	43.4	-31 24	10.2	10.4	F2	2	..	22915b	74	8471	43.7	-24 44	7.9	8.1	A2	7	..	13145b
25	6750	43.4	-32 33	9.0	8.7	Ao	3	..	22915b	75	6944	43.7	-27 25	8.9	9.3	G5	2	..	13281b
26	6073	43.4	-37 44	6.94	7.8	K2	7	..	13116b	76	6163	43.7	-34 39	9.3	9.6	G5	2	..	22915b
27	4167	43.4	-51 27	9.2	9.2	Fo	3	..	39868b	77	5517	43.7	-40 23	8.0	8.3	A5	4	..	19157b
28	2797	43.4	-52 9	9.1	9.6	Ao	3	..	38408b	78	2802	43.7	-52 14	9.1	9.5	F5	2	..	38408b
29	1646	43.4	-58 53	7.6	6.9	Ao	7	..	34089b	79	2878	43.7	-53 45	8.9	9.0	A2	5	..	38408b
30	1476	43.4	-59 26	9.9	9.9	Ao	1	..	40105b	80	2313	43.7	-58 3	9.8	10.3	F8	1	..	40105b
31	1477	43.4	-59 43	10.1	10.1	Ao	2	..	40105b	81	1216	43.8	+58 41	9.3	10.3	Ko	1	..	38224i
32	1310	43.4	-62 37	9.1	9.1	Ao	4	..	40221b	82	2159	43.8	+24 52	8.56	9.56	Ko	1	..	38642i
33	1146	43.4	-65 46	9.5	9.6	A2	2	..	40221b	83	2115	43.8	+15 26	8.1	8.2	A2	5	..	37610i
34	1069	43.4	-67 7	9.3	9.3	Ao	4	..	40074b	84	2928	43.8	- 9 27	6.98	6.98	Ao	10	..	18996b
35	631	43.4	-74 15	8.6	9.6	Ko	3	..	21453b	85	2906	43.8	-15 38	9.2	9.8	Go	2	..	41224b
36	613	43.4	-75 22	9.4	9.9	F8	2	..	21453b	86	2905	43.8	-15 51	9.2	9.3	A2	2	..	41224b
37	2151	43.5	+14 16	8.1	8.4	Fo	3	..	37610i	87	2830	43.8	-19 29	8.2	9.4	K2	4	2,2	41224b
38	2107	43.5	+11 2	9.13	9.55	F5	1	..	37610i	88	2722	43.8	-22 16	9.2	9.4	F5	1	..	13323b
39	2251	43.5	+ 2 28	10.6	11.2	Go	1	..	13393b	89	2724	43.8	-22 22	9.2	9.0	A2	3	..	13145b
40	2250	43.5	- 0 21	8.23	8.73	F8	6	..	22970b	90	7911	43.8	-30 31	8.5	9.8	Ko	1	..	22915b
41	3005	43.5	- 6 51	8.1	8.1	Ao	7	..	19137b	91	6083	43.8	-37 54	7.28	8.1	Go	8	..	13116b
42	2725	43.5	-11 31	9.2	9.6	F5	2	..	18996b	92	5628	43.8	-42 7	8.8	8.6	Ao	6	..	19157b
43	2994	43.5	-13 3	9.0	9.1	A2	4	..	18996b	93	2881	43.8	-53 50	9.7	9.8	A3	3	..	38408b
44	2720	43.5	-23 3	9.0	9.3	F5	1	..	13145b	94	2314	43.8	-57 53	10.4	10.4	Ao	1	..	40105b
45	2703	43.5	-54 58	9.33	9.5	Ao	3	..	38408b	95	1648	43.8	-59 1	9.6	9.6	B9	1	..	40105b
46	2520	43.5	-57 5	10.1	10.1	Ao	2	..	40105b	96	633	43.8	-74 20	9.1	10.1	Ko	1	..	21453b
47	1336	43.5	-61 30	9.0	9.7	K2	3	..	40221b	97	597	43.8	-76 19	8.1	8.1	B9	9	..	21453b
48	1885	43.6	+49 33	8.12	8.40	Fo	4	..	38336i	98	1146	43.9	+61 6	8.5	9.1	Go	3	..	38224i
49	2157	43.6	+24 54	8.56	9.63	K2	1	..	38642i	99	1268	43.9	+59 31	3.89	4.17	Fo	..	R	2553c
50	2274	43.6	+18 32	7.78	8.78	Ko	3	..	37608i	100	1352	43.9	+55 0	9.5	9.5	Ao	1	..	38638i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

85000

9^h 43^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	1362	43.9	+53 18	9.5	10.0	F8	1	..	38638i	51	222	44.3	+83 57	8.20	8.76	Go	3	..	3833ri
2	2266	43.9	+18 59	8.3	8.9	G	2	..	37608i	52	2001	44.3	+36 21	7.29	8.29	Ko	5	..	3824ri
3	2251	43.9	- 0 33	9.2	9.7	F8	1	..	22970b	53	2013	44.3	+25 52	8.9	10.0	K2	1	..	38642i
4	2898	43.9	- 8 2	9.2	9.5	Fo	3	..	19137b	54	2382	44.3	+20 16	9.5	10.3	G5	3	..	37608i
5	2770	43.9	- 8 46	9.7	10.2	F8	2	..	19137b	55	2771	44.3	- 8 22	7.01	8.08	K2	7	..	19137b
6	2891	43.9	-16 26	9.2	10.2	Ko	2	..	41224b	56	2894	44.3	-16 40	9.7	9.7	Ao	3	..	41224b
7	7503	43.9	-25 32	9.4	9.3	Go	2	..	13145b	57	2893	44.3	-17 7	9.2	10.4	K5	1	..	41224b
8	5512	43.9	-46 11	10.2	10.5	Mb	2	..	39931b	58	3021	44.3	-20 53	8.8	9.6	G5	2	0,2	13145b
9	5004	43.9	-48 13	10.5	9.5	B8	1	..	39864b	59	2727	44.3	-23 10	9.2	9.4	F	2	..	13145b
10	2805	43.9	-52 51	10.3	10.3	A	1	..	38408b	60	8758	44.3	-23 50	8.9	9.0	Fo	3	..	13145b
11	1480	43.9	-59 26	9.1	9.1	Ao	3	..	40105b	61	6765	44.3	-32 12	9.0	9.0	A2	3	..	22915b
12	1115	43.9	-69 39	7.2	7.2	B8	8	..	22988b	62	5011	44.3	-48 10	8.3	8.3	A2	5	..	39864b
13	83	44.0	+87 3	7.97	8.75	G5	4	..	37546i	63	1498	44.3	-60 39	8.5	9.7	Ko	4	R	40105b
14	1363	44.0	+53 36	9.3	10.1	G5	1	..	38638i	64	644	44.3	-74 6	8.3	9.1	G5	4	..	21453b
15	1913	44.0	+44 28	8.47	8.89	F5	3	..	38336i	65	1364	44.4	+53 41	9.0	9.1	A2	2	..	38638i
16	2053	44.0	+31 33	6.87	7.01	A5	8	..	37741i	66	..	44.4	+53 7	..	..	R3	..	..	M
17	2111	44.0	+21 17	7.9	8.7	G5	5	..	37608i	67	1426	44.4	+52 30	8.7	9.2	F8	2	..	38638i
18	2267	44.0	+19 7	8.3	9.1	G5	2	..	37608i	68	1814	44.4	+27 17	8.9	9.9	Ko	1	..	37529i
19	2931	44.0	-10 6	8.96	8.96	Ao	3	..	18996b	69	2383	44.4	+20 4	8.8	9.9	K2	2	..	37608i
20	2907	44.0	-15 58	8.6	8.7	A2	6	..	41224b	70	2141	44.4	+17 18	7.9	9.0	K2	3	..	37608i
21	2892	44.0	-16 25	9.2	10.2	Ko	1	..	41224b	71	2060	44.4	+10 16	10.2	10.6	F5	1	..	37610i
22	2725	44.0	-22 12	8.06	8.2	B9	6	1,6	13145b	72	2252	44.4	- 0 23	9.2	10.2	Ko	1	..	22970b
23	8477	44.0	-25 5	8.90	9.1	Ko	5	..	13145b	73	2729	44.4	- 4 25	8.7	9.5	G5	2	..	22970b
24	5875	44.0	-45 5	8.88	9.9	Ko	1	..	39945b	74	2772	44.4	- 8 36	9.5	10.3	G5	1	..	19137b
25	2531	44.0	-56 53	8.3	9.8	Ma	2	..	40105b	75	2973	44.4	-17 58	8.6	8.7	A2	5	..	41224b
26	1315	44.0	-62 15	7.8	7.9	A3	7	..	40221b	76	2794	44.4	-19 10	8.2	8.4	F2	5	0,7	13145b
27	1081	44.0	-64 18	8.7	9.5	G5	3	..	40221b	77	3022	44.4	-20 58	8.6	9.0	G5	5	0,4	41224b
28	1148	44.0	-66 1	9.8	9.8	Ao	2	..	40074b	78	6768	44.4	-32 39	10.0	10.7	Ao	2	..	22915b
29	2261	44.1	+40 6	6.76	7.94	K5	6	..	38241i	79	5945	44.4	-35 22	8.7	9.1	F5	2	..	13116b
30	2038	44.1	+34 5	7.9	8.3	F5	5	..	38241i	80	5435	44.4	-46 5	8.6	8.5	A2	5	..	39864b
31	2269	44.1	+ 2 51	10.2	10.7	F8	1	..	13393b	81	5524	44.4	-47 0	8.3	9.0	G5	3	..	39864b
32	2728	44.1	- 4 24	8.2	9.6	Ma	2	..	22970b	82	2536	44.4	-55 59	8.6	8.4	B8	4	..	38408b
33	2900	44.1	- 8 0	9.2	10.0	G5	1	..	19137b	83	2322	44.4	-57 43	8.2	8.0	B8	7	..	40105b
34	2972	44.1	-17 18	9.7	10.1	F5	1	..	41224b	84	1481	44.4	-59 23	10.1	10.1	Ao	2	..	40105b
35	2792	44.1	-18 50	7.17	8.17	Ko	6	0,8	13145b	85	1483	44.4	-59 40	10.1	10.4	Fo	1	..	40105b
36	7805	44.1	-29 51	7.90	9.2	G5	4	..	22915b	86	1551	44.5	+51 30	9.3	9.4	A3	2	..	38638i
37	4692	44.1	-49 29	6.88	7.7	Ao	8	..	39864b	87	2163	44.5	+25 2	6.95	7.37	F5	7	0,6	38642i
38	2884	44.1	-53 8	9.5	9.5	Ao	2	..	38408b	88	2144	44.5	+17 2	8.5	9.1	Go	3	..	37608i
39	1769	44.2	+45 33	8.1	8.4	F2	6	..	38336i	89	2117	44.5	+15 22	8.5	8.8	Fo	2	..	37608i
40	2113	44.2	+21 39	6.01	6.29	Fo	10	..	37608i	90	2118	44.5	+15 2	8.3	9.4	K2	1	..	37608i
41	2101	44.2	+12 35	8.95	9.73	G5	1	..	37610i	91	2108	44.5	+11 34	7.48	7.98	F8	4	..	37610i
42	2912	44.2	-21 32	7.24	7.4	Ao	7	0,8	13145b	92	2251	44.5	+ 4 34	8.95	10.02	K2	2	..	13393b
43	7510	44.2	-25 57	6.75	7.6	Fo	4	..	7734b	93	2270	44.5	+ 3 35	9.4	9.8	F5	2	..	13393b
44	6085	44.2	-37 10	7.18	8.4	K2	5	..	13116b	94	2252	44.5	+ 2 17	9.6	10.2	Go	2	..	13393b
45	5523	44.2	-40 58	8.1	8.6	A3	5	..	19157b	95	2366	44.5	+ 1 7	9.4	10.0	Go	2	..	13393b
46	2885	44.2	-53 50	9.2	9.8	Go	1	..	38408b	96	2564	44.5	+ 0 10	8.9	9.4	F8	2	..	22970b
47	1179	44.2	-63 47	8.6	8.6	Ao	6	..	40221b	97	2785	44.5	- 3 26	9.2	9.5	F2	2	..	22970b
48	1149	44.2	-66 5	8.9	9.2	Fo	3	..	40221b	98	2915	44.5	-21 44	9.0	9.7	K2	1	..	13145b
49	1129	44.2	-67 12	8.9	9.0	A2	6	..	40074b	99	6387	44.5	-33 20	10.7	10.1	Go	2	..	22915b
50	634	44.2	-74 23	8.1	8.1	B9	8	..	21453b	100	6170	44.5	-34 33	7.31	7.7	A3	8	..	13116b

THE HENRY DRAPER CATALOGUE.

85100

9^h 44^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6089	44.5	-37 23	8.7	8.4	A2	5	..	13116b	51	5892	44.8	-44 26	9.4	9.6	G5	2	..	19157b
2	5359	44.5	-41 35	10.2	9.8	A2	1	..	19157b	52	2823	44.8	-52 31	9.0	9.5	F5	2	..	38408b
3	5631	44.5	-43 33	7.9	8.1	A2	8	..	19157b	53	2899	44.8	-53 46	9.4	10.4	Ko	1	..	38408b
4	5258	44.5	-47 24	9.4	9.6	F2	3	..	39864b	54	2902	44.8	-53 56	7.2	8.3	Ko	8	..	38408b
5	2539	44.5	-55 19	9.5	9.5	Ao	3	..	38408b	55	2731	44.8	-54 50	9.0	9.5	B9	3	..	38408b
6	2540	44.5	-55 29	8.6	9.2	G5	4	..	38408b	56	2544	44.8	-55 44	8.3	8.9	Ko	5	..	38408b
7	1482	44.5	-59 32	9.7	9.7	B9	2	..	40105b	57	2540	44.8	-56 59	9.5	9.8	Fo	3	..	40105b
8	1556	44.6	+46 1	7.9	8.3	F5	4	..	38336i	58	2334	44.8	-57 43	8.5	8.9	A2	6	..	40105b
9	2051	44.6	+42 45	8.7	9.7	Ko	2	..	38336i	59	1501	44.8	-60 40	9.9	9.9	A	2	..	40221b
10	2915	44.6	- 5 48	10.1	10.7	Go	1	..	19137b	60	397	44.9	+74 53	8.97	9.53	Go	2	..	37714i
11	3010	44.6	- 6 52	9.1	9.2	A5	2	..	19137b	61	584	44.9	+70 21	8.2	9.2	Ko	4	..	37706i
12	2773	44.6	- 8 43	8.7	9.1	F5	5	..	19137b	62	1941	44.9	+31 52	7.28	8.63	Ma	3	..	37741i
13	2728	44.6	-22 55	9.2	9.6	A	1	..	13145b	63	2306	44.9	- 2 8	8.72	9.06	F2	5	..	22970b
14	8487	44.6	-24 11	7.58	8.7	Ko	5	..	13145b	64	2732	44.9	-11 48	8.6	8.9	Fo	2	..	18996b
15	8486	44.6	-24 46	8.9	9.3	Ko	4	..	13145b	65	2895	44.9	-16 34	9.2	10.2	Ko	2	..	41224b
16	8485	44.6	-24 53	10.4	9.7	Ko	1	..	13145b	66	3025	44.9	-20 49	9.5	10.5	K5	1	..	41224b
17	6771	44.6	-32 21	8.2	8.6	A2	5	..	22915b	67	4196	44.9	-52 3	8.4	8.6	Ko	6	..	38408b
18	6389	44.6	-33 51	9.4	9.8	Go	2	..	22915b	68	2139	45.0	+24 8	9.5	10.5	Ko	1	..	38642i
19	5950	44.6	-36 51	8.7	9.3	Ko	1	..	13116b	69	2255	45.0	- 0 37	9.9	10.2	Fo	2	..	22970b
20	6090	44.6	-37 52	8.7	9.0	Go	2	..	13116b	70	2919	45.0	-21 18	9.0	9.4	F5	2	3,2	13145b
21	5362	44.6	-41 50	9.4	9.8	K2	1	..	39945b	71	7819	45.0	-29 45	9.1	8.9	Ao	3	..	22915b
22	2725	44.6	-54 7	9.1	9.5	F5	6	..	38408b	72	7818	45.0	-29 58	9.20	8.9	Fo	3	..	22915b
23	1084	44.6	-64 36	3.15	3.43	Fo	..	R	28,203	73	6172	45.0	-34 27	8.7	9.1	A5	2	..	13116b
24	872	44.6	-64 36	6.03	6.31	Fo	..	R	28,203	74	6095	45.0	-37 47	9.4	9.1	Ao	1	..	13116b
25	636	44.6	-71 19	7.8	8.9	K2	3	..	22988b	75	1650	45.0	-58 24	10.4	10.4	A	1	..	40105b
26	615	44.6	-75 4	10.0	10.1	A3	3	..	21453b	76	2264	45.1	+40 40	8.6	9.0	F5	1	..	38241i
27	448	44.6	-75 26	8.5	9.0	F8	5	..	21453b	77	2023	45.1	+36 58	7.81	8.15	F2	5	..	38241i
28	2731	44.7	-11 19	7.00	8.07	K2	6	..	18996b	78	2239	45.1	+ 5 42	8.5	9.6	K2	3	..	13393b
29	2975	44.7	-17 51	8.8	8.9	A5	4	..	41224b	79	2566	45.1	+ 0 35	7.44	7.86	F5	8	..	13393b
30	6772	44.7	-33 2	8.7	10.4	K2	2	..	22915b	80	2565	45.1	+ 0 14	7.38	8.38	Ko	7	..	13393b
31	6391	44.7	-33 53	9.1	9.6	Ao	3	..	22915b	81	2307	45.1	- 1 40	8.9	9.7	G5	2	..	22970b
32	5888	44.7	-45 6	9.38	9.6	A2	2	..	39945b	82	3002	45.1	-12 20	8.0	8.4	F5	4	..	18996b
33	5260	44.7	-47 53	10.0	9.9	B8	1	..	39864b	83	6777	45.1	-32 56	8.0	8.9	K2	5	..	22915b
34	4527	44.7	-50 30	8.4	9.2	Ko	1	..	39864b	84	5533	45.1	-40 11	9.44	9.3	F5	1	..	19157b
35	2542	44.7	-55 30	8.9	9.5	G5	2	..	38408b	85	5267	45.1	-47 27	7.8	8.1	Ao	7	..	39864b
36	2330	44.7	-57 12	8.9	9.5	Go	4	..	40105b	86	4532	45.1	-50 32	8.9	8.9	Fo	4	..	39864b
37	1500	44.7	-60 34	9.1	8.7	Ao	4	..	40221b	87	4199	45.1	-51 57	9.6	9.2	A2	5	..	38408b
38	1184	44.7	-63 8	8.2	9.2	Ko	4	..	40221b	88	2827	45.1	-52 33	9.1	8.9	Fo	5	..	38408b
39	873	44.7	-71 45	var.	var.	Mb	3	R	33946b	89	2735	45.1	-55 6	9.23	9.2	Ao	5	..	38408b
40	616	44.7	-75 37	9.6	9.6	Ao	4	..	21453b	90	1651	45.1	-58 12	9.9	9.9	Ao	2	..	40105b
41	621	44.8	+67 44	8.1	9.1	Ko	3	..	38654i	91	1503	45.1	-60 7	9.51	9.7	Ao	4	0,2	40105b
42	2061	44.8	+10 8	8.5	9.3	G5	2	..	37610i	92	1502	45.1	-60 33	8.2	8.2	A2	5	..	40221b
43	2253	44.8	+ 2 16	8.5	8.9	F5	6	..	13393b	93	1138	45.1	-67 9	9.2	9.8	Go	1	..	40074b
44	2774	44.8	- 8 53	9.5	9.8	Fo	3	..	19137b	94	986	45.1	-69 2	8.4	9.8	Mb	..	..	M
45	2910	44.8	-16 10	8.0	9.1	K2	4	..	41224b	95	645	45.1	-73 39	7.2	7.3	A2	10	..	21453b
46	3024	44.8	-21 0	9.2	10.2	K5	1	..	41224b	96	1150	45.2	+61 13	9.0	9.5	F8	2	..	38224i
47	2916	44.8	-21 27	9.1	9.3	F8	2	3,1	41224b	97	2054	45.2	+41 59	8.3	9.3	K	1	..	38241i
48	2730	44.8	-22 55	9.2	9.9	K	1	..	13145b	98	2276	45.2	+18 12	7.9	8.5	Go	3	..	37608i
49	6966	44.8	-28 5	8.3	9.0	F8	4	..	13281b	99	2274	45.2	+ 7 56	9.2	9.6	F5	4	..	9463b
50										100	3011	45.2	- 6 21	9.5	9.9	F5	1	..	19137b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

85200

9^h 45^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2778	45.2	- 8 59	9.9	10.4	F8	1	..	19137b	51	2549	45.4	-56 37	8.2	8.9	G5	5	..	40105b
2	7522	45.2	-25 33	8.5	9.6	K2	3	..	13145b	52	2346	45.4	-57 38	10.0	10.1	A2	2	..	40105b
3	6779	45.2	-32 41	9.8	10.4	Go	2	..	22915b	53	1658	45.4	-58 13	8.8	9.4	Ko	2	..	40105b
4	6403	45.2	-33 30	9.4	10.7	Ko	2	..	22915b	54	1487	45.4	-59 44	8.6	9.0	F5	4	..	40221b
5	5955	45.2	-35 30	8.4	9.1	Ko	2	..	13116b	55	1188	45.4	-63 13	8.9	9.5	Go	2	..	40221b
6	5955	45.2	-36 43	6.05	7.5	Ko	9	..	13116b	56	1141	45.4	-67 35	8.7	9.5	G5	2	..	40074b
7	6099	45.2	-37 52	8.0	9.0	F2	3	..	13116b	57	876	45.4	-71 33	8.5	9.7	K5	2	..	40074b
8	5372	45.2	-41 57	10.2	9.3	Ao	2	..	19157b	58	2157	45.5	+14 36	8.1	8.9	G5	2	..	37610i
9	5648	45.2	-43 1	6.67	8.0	Ko	8	..	19157b	59	2105	45.5	+12 19	6.66	6.66	Ao	9	..	37610i
10	2340	45.2	-57 12	8.5	9.8	Ma	3	..	40105b	60	2736	45.5	-11 48	8.4	8.8	F5	4	..	18996b
11	1154	45.2	-65 43	9.8	9.8	Ao	1	..	40074b	61	2957	45.5	-14 53	9.0	9.3	Fo	4	..	41224b
12	1139	45.2	-67 49	8.2	8.5	Fo	5	..	40074b	62	8776	45.5	-24 7	9.7	9.9	F5	2	..	13145b
13	473	45.3	+72 9	7.58	7.58	Ao	6	..	37714i	63	7526	45.5	-25 42	9.7	9.7	F5	2	..	15600b
14	1427	45.3	+52 4	8.7	9.0	F2	3	..	38638i	64	7682	45.5	-31 13	9.9	10.7	A2	1	..	22915b
15	2115	45.3	+21 17	9.5	10.5	K	2	..	37608i	65	6406	45.5	-34 4	10.0	10.8	G5	1	..	22915b
16	2270	45.3	+19 48	8.05	8.13	A3	5	..	37608i	66	1116	45.5	-69 30	9.7	9.7	A	1	..	40074b
17	2240	45.3	+ 4 49	6.24	6.66	F5	10	..	13393b	67	383	45.5	-80 25	9.1	9.4	Fo	4	..	21453b
18	2255	45.3	+ 2 18	8.1	9.1	Ko	6	..	13393b	68	2164	45.6	+13 33	6.70	7.88	K5	6	..	37610i
19	2256	45.3	- 0 57	7.9	8.9	Ko	7	..	22970b	69	2112	45.6	+11 22	8.14	8.14	Ao	4	..	37610i
20	2309	45.3	- 1 33	8.9	9.2	F2	3	..	22970b	70	2275	45.6	+ 8 36	7.9	8.7	G5	3	..	37610i
21	2939	45.3	- 9 35	8.6	9.8	K5	1	..	18996b	71	2242	45.6	+ 5 28	8.5	9.5	Ko	4	..	13393b
22	2938	45.3	- 9 44	8.8	9.9	K2	3	..	19137b	72	2257	45.6	- 0 19	9.9	11.0	K2	1	..	22970b
23	2839	45.3	-19 48	9.2	9.6	K2	2	2,1	41224b	73	2258	45.6	- 0 42	8.9	9.9	Ko	3	..	22970b
24	8773	45.3	-23 54	8.3	9.3	K2	2	..	13145b	74	2310	45.6	- 2 2	8.7	9.9	K5	3	..	22970b
25	7662	45.3	-28 34	8.7	9.0	Ao	6	..	22915b	75	2897	45.6	-16 32	9.2	9.6	F5	1	..	41224b
26	7933	45.3	-30 16	9.20	10.4	Ko	2	..	22915b	76	8777	45.6	-24 1	9.1	8.4	A2	4	..	13145b
27	5532	45.3	-46 16	9.4	9.6	Ao	3	..	39864b	77	7665	45.6	-28 25	7.6	8.7	Ko	7	..	22915b
28	2830	45.3	-52 10	7.6	8.6	Ko	7	..	38408b	78	7827	45.6	-29 26	8.0	8.0	F2	6	..	22915b
29	2738	45.3	-54 29	10.1	10.1	Ao	2	..	38408b	79	5377	45.6	-41 40	9.0	8.6	Ao	4	..	19157b
30	2737	45.3	-55 2	7.78	9.5	Ma	4	..	38408b	80	5376	45.6	-41 51	9.3	9.2	K2	2	0,1	39945b
31	1504	45.3	-60 16	10.2	10.2	Ao	1	..	40105b	81	5655	45.6	-42 20	9.1	8.9	Ao	6	..	19157b
32	1342	45.3	-61 46	9.8	9.9	A2	2	..	40221b	82	5536	45.6	-46 35	9.2	9.6	A3	4	..	39864b
33	1088	45.3	-64 39	9.3	9.3	Ao	4	..	40221b	83	4715	45.6	-49 59	9.78	9.3	A2	1	..	39864b
34	1081	45.3	-67 1	9.6	9.6	A	1	..	40074b	84	2742	45.6	-54 34	9.8	9.8	Ao	2	..	38408b
35	1331	45.4	+54 32	4.54	4.60	A2	..	0,R	56,87	85	2554	45.6	-55 44	9.1	9.8	K2	2	..	38408b
36	1366	45.4	+53 37	8.9	9.3	F5	3	..	38638i	86	1085	45.6	-66 24	8.1	9.3	K5	3	..	40221b
37	1690	45.4	+50 13	8.17	9.35	K5	2	..	38638i	87	987	45.6	-69 7	8.6	10.0	Ma	1	..	40074b
38	1689	45.4	+50 5	7.77	8.33	Go	5	0,4	38336i	88	868	45.6	-73 7	9.1	10.1	Ko	1	..	39946b
39	1922	45.4	+30 38	9.1	9.9	G5	1	..	37529i	89	639	45.6	-74 35	9.4	9.4	B8	5	..	21453b
40	1954	45.4	+29 24	9.5	10.0	F8	1	..	37529i	90	1915	45.7	+44 17	9.0	9.8	G5	1	..	38336i
41	2142	45.4	+24 20	8.8	9.6	G5	2	..	38642i	91	2266	45.7	+40 5	7.62	7.70	A3	6	..	38241i
42	2255	45.4	+ 3 50	8.7	9.8	K2	3	..	13393b	92	1814	45.7	+28 4	8.7	9.7	Ko	2	..	37529i
43	3012	45.4	- 6 13	9.1	9.9	G5	1	..	19137b	93	2165	45.7	+25 26	9.1	10.1	Ko	1	..	38642i
44	3026	45.4	-20 40	8.6	9.0	A2	6	0,3	41224b	94	3013	45.7	- 6 55	7.04	7.38	F2	10	..	19137b
45	7524	45.4	-25 24	9.2	9.9	K2	1	..	13145b	95	8504	45.7	-24 17	9.4	9.0	B8	3	..	13145b
46	6404	45.4	-33 47	10.4	10.7	Ao	2	..	22915b	96	5961	45.7	-35 48	6.30	7.8	Ko	9	..	13116b
47	6184	45.4	-34 34	9.4	9.7	G5	2	..	22915b	97	4549	45.7	-50 12	8.48	8.9	G5	3	..	39864b
48	5652	45.4	-42 20	9.4	9.3	A5	2	..	19157b	98	2839	45.7	-53 4	8.9	10.0	K2	1	..	38408b
49	2912	45.4	-53 7	8.1	8.6	Go	6	..	38408b	99	647	45.7	-73 37	9.8	9.9	A2	2	..	21453b
50	2548	45.4	-55 57	6.14	7.4	Ko	..	0,10	56,127	100	210	45.7	-85 33	6.94	6.9	F2	5	3,10	11010b

THE HENRY DRAPER CATALOGUE.

85300

9^h 45^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1889	45.8	+49 40	7.67	8.45	G5	4	..	38336i	51	2842	46.1	-19 38	8.6	9.3	Ko	4	0,2	41224b
2	2039	45.8	+16 48	8.5	9.5	Ko	3	..	37608i	52	3032	46.1	-20 19	7.83	8.2	Ao	5	0,7	13145b
3	2276	45.8	+ 8 33	9.2	9.3	A3	3	..	9463b	53	6793	46.1	-32 52	10.0	10.8	G5	2	..	22915b
4	2370	45.8	+ 1 17	8.5	8.6	A2	6	..	13393b	54	6198	46.1	-35 0	10.0	9.9	Ao	1	..	22915b
5	8506	45.8	-24 9	9.5	9.6	Go	2	..	13145b	55	5470	46.1	-45 16	5.26	5.21	B8	..	0,R	28,203
6	7464	45.8	-26 45	8.3	9.6	Ko	1	..	13145b	56	5287	46.1	-47 29	7.8	8.1	Bo	5	..	39864b
7	7938	45.8	-30 54	8.2	9.5	K2	2	..	22915b	57	2555	46.1	-56 23	10.3	10.4	A3	2	..	40105b
8	6410	45.8	-34 5	8.0	8.9	Fo	3	..	13116b	58	2557	46.1	-57 7	9.8	9.8	B9	2	..	40105b
9	6104	45.8	-37 11	9.3	9.3	Ao	2	..	13116b	59	1161	46.1	-65 43	9.3	10.3	Ko	1	..	40074b
10	5952	45.8	-38 29	8.7	8.9	K2	3	..	13116b	60	741	46.2	+65 16	7.50	8.50	Ko	4	..	37517i
11	5541	45.8	-40 31	9.6	9.6	A3	1	..	19157b	61	2387	46.2	+20 38	8.1	9.1	Ko	4	..	37608i
12	5539	45.8	-46 46	10.0	9.9	F8	1	..	39864b	62	2278	46.2	+17 57	8.1	8.6	F8	3	..	37608i
13	1491	45.8	-59 40	7.6	7.0	Ko	6	..	40221b	63	2569	46.2	+ 0 47	8.9	10.0	K2	3	..	13393b
14	1346	45.8	-61 42	8.8	10.4	K2	1	..	40221b	64	2794	46.2	- 3 46	6.00	6.06	A2	10	..	22970b
15	1320	45.8	-62 23	9.1	9.4	Fo	2	..	40221b	65	3004	46.2	-12 28	8.4	9.2	G5	2	..	18996b
16	988	45.8	-68 19	9.0	9.1	A2	2	..	40074b	66	2843	46.2	-19 28	9.2	9.7	Go	2	..	41224b
17	1943	45.9	+31 55	8.5	9.3	G5	2	..	37529i	67	3033	46.2	-20 59	8.1	8.7	Fo	5	0,4	41224b
18	2256	45.9	+ 2 16	9.9	10.5	Go	2	..	13393b	68	7533	46.2	-25 52	8.5	9.0	Ao	5	..	13145b
19	2312	45.9	- 1 33	var.	var.	Nb	1	R	13393b	69	5544	46.2	-40 23	8.7	9.5	Ko	1	..	19157b
20	2905	45.9	- 7 50	9.7	9.7	Ao	3	..	19137b	70	2924	46.2	-53 41	9.2	9.8	Go	2	..	38408b
21	7529	45.9	-25 49	9.4	9.6	A2	2	..	13145b	71	1270	46.3	+59 1	9.3	10.3	Ko	1	..	38224i
22	6194	45.9	-34 39	9.8	9.9	Ao	4	..	22915b	72	1918	46.3	+43 57	7.9	8.9	Ko	3	..	38336i
23	5873	45.9	-39 42	7.48	8.3	Ao	8	0,8	19157b	73	2076	46.3	+38 24	6.74	7.02	Fo	7	..	38241i
24	5283	45.9	-47 35	9.8	9.6	Ao	3	..	39864b	74	2004	46.3	+36 48	7.72	8.14	F5	4	..	38241i
25	2919	45.9	-53 44	9.1	9.5	Fo	4	..	38408b	75	1956	46.3	+29 44	9.01	9.51	F8	2	..	37529i
26	2744	45.9	-54 51	10.0	10.1	A2	2	..	38408b	76	2169	46.3	+24 52	5.33	5.39	A2	10	0,R	38642i
27	2558	45.9	-55 59	8.9	9.5	Ao	3	..	38408b	77	2258	46.3	+ 3 51	7.6	7.6	Ao	9	..	13393b
28	2554	45.9	-56 31	10.3	10.3	Ao	1	..	40105b	78	2274	46.3	+ 3 38	9.2	9.5	Fo	3	..	13393b
29	1507	45.9	-60 46	9.9	10.2	F2	2	..	40221b	79	2314	46.3	- 1 23	7.38	8.45	K2	7	..	22970b
30	1189	45.9	-63 31	8.9	9.3	F5	4	..	40221b	80	2923	46.3	- 5 43	6.52	7.08	Go	10	..	19137b
31	1924	46.0	+30 47	8.6	9.0	F5	2	..	37529i	81	3005	46.3	-13 3	8.7	8.8	A2	3	..	18996b
32	2017	46.0	+26 47	8.8	9.4	Go	2	..	37529i	82	2916	46.3	-15 25	7.45	8.45	Ko	8	..	41224b
33	2568	46.0	+ 0 18	8.9	8.9	Ao	6	..	13393b	83	6985	46.3	-27 39	8.9	9.6	Fo	2	..	13281b
34	2920	46.0	- 6 1	9.5	10.1	Go	1	..	19137b	84	6799	46.3	-32 23	9.0	10.1	Ko	1	..	22915b
35	2740	46.0	-11 15	8.0	9.1	K2	3	..	18996b	85	6801	46.3	-32 37	9.4	10.1	F8	2	..	22915b
36	3031	46.0	-20 36	8.6	8.7	A5	5	0,3	41224b	86	6800	46.3	-32 48	9.0	9.2	G5	4	..	22915b
37	7830	46.0	-30 1	9.2	9.6	Fo	3	..	22915b	87	5971	46.3	-35 48	7.6	8.2	A2	8	..	13116b
38	6791	46.0	-33 7	8.8	10.7	K2	2	..	22915b	88	5387	46.3	-41 18	7.8	8.4	K2	4	..	19157b
39	6414	46.0	-33 39	8.7	9.8	Go	4	..	22915b	89	5386	46.3	-42 6	10.4	9.6	G5	1	..	19157b
40	5381	46.0	-41 34	var.	var.	Mc	..	R	M	90	4727	46.3	-49 19	8.5	8.6	Ko	3	..	39864b
41	4213	46.0	-51 40	7.6	7.7	B8	8	..	38408b	91	2853	46.3	-52 37	8.6	9.2	Ko	4	..	38408b
42	2920	46.0	-53 27	9.2	9.8	Go	3	..	38408b	92	2925	46.3	-53 36	8.7	8.6	F2	7	..	38408b
43	2921	46.0	-53 39	10.3	10.3	Ao	2	..	38408b	93	2358	46.3	-57 35	9.0	9.8	Ko	2	..	40105b
44	1660	46.0	-58 19	9.0	8.8	Fo	4	..	40105b	94	1324	46.3	-62 33	7.8	7.8	Ao	3	..	34089b
45	327	46.1	+78 25	7.48	8.48	Ko	6	5,4	37714i	95	1123	46.3	-69 29	8.8	9.8	Ko	1	..	40074b
46	2020	46.1	+41 27	7.9	8.0	A3	5	..	38241i	96	598	46.3	-76 19	5.35	7.3	Ko	..	R	56,127
47	2275	46.1	+18 52	8.6	9.4	G5	2	..	37608i	97	2021	46.4	+40 52	7.9	8.9	Ko	3	..	38241i
48	2273	46.1	+ 3 2	9.6	10.2	Go	2	..	13393b	98	2154	46.4	+23 29	8.1	8.6	F8	4	..	37608i
49	2958	46.1	-15 10	9.5	10.5	Ko	1	..	41224b	99	2258	46.4	+ 2 8	10.2	10.6	F5	1	..	13393b
50	2899	46.1	-16 45	9.7	10.1	F5	2	..	41224b	100	2906	46.4	- 8 5	9.2	9.5	F2	3	..	19137b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

85400

9^h 46^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2901	46.4	-16 16	9.1	9.4	Fo	4	..	41224b	51	5961	46.7	-38 22	7.6	8.1	Ao	6	..	13116b
2	2980	46.4	-18 11	7.30	7.72	F5	7	..	41224b	52	5296	46.7	-47 30	9.1	9.9	G5	1	..	39864b
3	2844	46.4	-19 40	8.8	9.6	K5	2	3,2	41224b	53	4734	46.7	-49 52	8.3	8.0	B9	5	..	39864b
4	3036	46.4	-20 37	7.87	8.2	Go	6	0,5	41224b	54	2565	46.7	-56 32	8.8	10.3	K2	2	..	40105b
5	2739	46.4	-22 32	var.	var.	Np	2	R	13145b	55	1501	46.7	-59 48	8.34	8.4	A3	3	..	34089b
6	5546	46.4	-40 51	9.6	9.8	F5	2	..	19157b	56	1196	46.7	-63 58	8.8	10.0	K5	1	..	40221b
7	5475	46.4	-45 42	9.0	9.3	F2	3	..	39864b	57	518	46.8	+71 34	8.1	8.9	G5	4	..	37706i
8	5041	46.4	-48 31	10.2	9.3	A2	2	..	39864b	58	542	46.8	+69 23	8.7	9.1	F5	4	..	37706i
9	4730	46.4	-49 9	7.6	7.8	F8	7	..	39864b	59	1412	46.8	+56 15	8.3	9.3	Ko	3	..	38638i
10	4729	46.4	-49 54	10.9	9.5	A2	1	..	39864b	60	2784	46.8	- 8 27	9.5	9.8	F2	2	..	19137b
11	4563	46.4	-50 9	7.88	7.7	F8	6	..	39864b	61	2940	46.8	-10 52	6.81	8.16	Ma	7	..	18996b
12	2564	46.4	-55 13	9.5	9.5	Ao	3	..	38408b	62	2964	46.8	-14 54	9.2	10.2	Ko	3	..	41224b
13	2562	46.4	-57 5	10.3	10.3	A	1	..	40105b	63	2799	46.8	-19 11	8.0	8.7	Ko	6	5,4	41224b
14	368	46.5	+76 37	9.1	9.7	G	2	..	37714i	64	7705	46.8	-32 3	8.7	9.8	Ko	1	..	22915b
15	1920	46.5	+44 31	8.5	9.0	F8	2	..	38336i	65	5677	46.8	-42 54	8.6	9.0	K2	2	..	19157b
16	2006	46.5	+36 0	7.30	8.48	K5	4	..	38241i	66	5662	46.8	-43 38	9.6	9.0	B9	3	..	19157b
17	2059	46.5	+30 52	8.6	9.2	Go	2	..	37529i	67	5048	46.8	-48 11	9.8	8.9	F8	2	..	39864b
18	2795	46.5	- 3 38	9.2	10.0	G5	1	..	22970b	68	2757	46.8	-55 5	9.7	9.8	A5	3	..	38408b
19	2742	46.5	- 4 29	8.4	9.6	K5	4	..	22970b	69	1667	46.8	-58 21	7.9	7.7	Ao	5	..	34089b
20	2963	46.5	-13 15	7.96	8.96	Ko	5	..	18996b	70	1329	46.8	-62 50	9.5	9.5	Ao	3	..	40221b
21	2960	46.5	-14 12	8.5	9.0	F8	4	..	18996b	71	319	46.9	+80 51	8.07	8.85	G5	4	..	37465i
22	5671	46.5	-43 6	10.2	9.5	Ao	2	..	19157b	72	1220	46.9	+58 10	7.52	8.30	G5	3	..	38638i
23	5659	46.5	-43 11	10.2	9.9	Ao	2	..	19157b	73	1959	46.9	+29 29	9.5	10.1	Go	1	..	37529i
24	1327	46.5	-62 41	8.0	8.4	F5	4	..	40221b	74	2281	46.9	+ 8 36	8.5	9.3	G5	3	..	9463b
25	1219	46.6	+58 30	8.5	9.6	K2	2	..	38224i	75	2196	46.9	+ 6 56	9.2	9.6	F5	3	..	9463b
26	2068	46.6	+35 35	8.27	8.83	Go	2	..	38241i	76	2278	46.9	+ 3 39	9.6	10.2	Go	2	..	13393b
27	1947	46.6	+32 1	7.8	8.6	G5	4	E	37741i	77	2277	46.9	+ 3 18	8.5	9.1	Go	5	..	13393b
28	2170	46.6	+25 36	7.8	8.9	K2	3	..	38642i	78	2798	46.9	- 4 9	9.9	10.0	A2	1	..	22970b
29	2571	46.6	+ 0 4	9.33	9.75	F5	3	..	13393b	79	2908	46.9	- 7 28	9.1	9.2	A5	4	..	19137b
30	2993	46.6	- 2 24	9.1	10.1	Ko	1	..	22970b	80	7545	46.9	-25 25	9.1	9.6	Ko	2	..	13145b
31	2918	46.6	-16 5	8.2	8.6	F5	7	..	41224b	81	7476	46.9	-26 57	8.1	9.6	F8	2	..	13281b
32	6987	46.6	-28 1	8.1	9.1	G5	5	..	22915b	82	5927	46.9	-44 13	9.2	9.0	Ao	5	..	19157b
33	7951	46.6	-30 28	8.7	9.5	K2	3	..	22915b	83	5558	46.9	-46 28	6.02	7.8	Ko	..	0,8	28,204
34	6803	46.6	-32 55	9.0	9.0	Ao	6	..	22915b	84	4228	46.9	-51 29	10.5	9.5	A2	3	..	38408b
35	5044	46.6	-48 22	10.5	9.3	B9	2	..	39864b	85	2759	46.9	-54 48	8.4	8.9	Ao	5	..	38408b
36	4733	46.6	-49 58	7.58	8.6	Ma	3	..	39864b	86	1428	47.0	+52 29	9.0	9.3	Fo	3	..	38638i
37	2362	46.6	-57 26	8.7	8.9	B8	4	..	40105b	87	..	47.0	+ 4 14	..	..	F2	2	..	13393b
38	944	46.6	-70 27	8.6	9.8	K5	2	..	22988b	88	2279	47.0	+ 3 42	9.0	10.2	K5	3	..	13393b
39	1553	46.7	+51 7	7.40	8.18	G5	5	..	38336i	89	2967	47.0	-13 36	7.8	8.8	Ko	7	..	18996b
40	1815	46.7	+28 15	7.70	8.70	Ko	4	..	38642i	90	2800	47.0	-19 0	8.6	9.6	Ko	4	0,1	41224b
41	1819	46.7	+27 27	8.1	9.1	Ko	2	..	38642i	91	7478	47.0	-26 27	9.1	9.6	F2	2	..	13281b
42	2148	46.7	+16 57	8.4	8.4	B9	3	..	37608i	92	6117	47.0	-37 35	8.7	9.3	Ko	1	..	13116b
43	2797	46.7	- 4 0	9.0	9.4	F5	2	..	22970b	93	5971	47.0	-38 21	9.1	9.3	Ao	2	..	13116b
44	2963	46.7	-14 23	4.29	5.29	Ko	..	R	56,87	94	2569	47.0	-57 5	8.6	8.9	A2	4	..	40105b
45	2902	46.7	-17 6	9.2	10.4	K5	1	..	41224b	95	2368	47.0	-57 35	7.6	7.8	B5	7	..	40105b
46	2981	46.7	-18 10	9.5	10.0	F8	1	..	41224b	96	2367	47.0	-57 45	7.9	7.7	B8	6	..	40105b
47	2741	46.7	-22 29	8.94	9.7	G5	1	..	13145b	97	1347	47.0	-61 47	8.8	8.2	Ao	6	..	40221b
48	7543	46.7	-25 28	9.2	9.6	Ko	1	..	13145b	98	945	47.0	-70 18	8.6	8.6	Ao	3	..	22988b
49	7953	46.7	-31 3	7.7	8.0	Fo	6	..	22915b	99	450	47.0	-80 3	8.4	9.4	Ko	5	0,1	21453b
50	7702	46.7	-31 18	8.9	10.4	Ko	1	..	22915b	100	351	47.0	-82 20	8.20	8.5	Ao	7	0,7	13465b

THE HENRY DRAPER CATALOGUE.

85500

9^h 47^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1216	47.1	+60 24	7.12	8.19	K2	6	..	38224i	51	7964	47.4	-30 16	9.30	9.6	F5	3	..	22915b
2	1557	47.1	+46 10	8.7	9.5	G5	2	..	38291i	52	6123	47.4	-37 43	7.5	8.7	G5	6	..	13116b
3	2019	47.1	+26 29	4.10	5.10	Ko	..	R	1841c	53	2875	47.4	-52 50	8.6	8.6	A5	7	..	38408b
4	2280	47.1	+ 2 55	5.88	5.88	Ao	7	..	38657i	54	2876	47.4	-53 5	8.8	9.3	Ko	5	..	38408b
5	2573	47.1	+ 0 33	6.29	7.29	Ko	10	..	13393b	55	1509	47.4	-59 57	9.4	9.4	B9	2	..	40105b
6	2574	47.1	+ 0 18	9.2	10.4	K5	2	..	13393b	56	1555	47.5	+51 1	8.3	8.6	Fo	5	E	38336i
7	2945	47.1	- 9 23	8.0	9.1	K2	5	..	19137b	57	2138	47.5	+22 36	8.5	9.7	K5	2	..	37608i
8	2965	47.1	-14 28	9.2	10.2	K	1	..	18996b	58	2909	47.5	- 7 38	5.16	5.22	A2	..	R	56,87
9	2849	47.1	-19 18	8.7	9.6	Ko	2	0,1	41224b	59	2788	47.5	- 8 46	7.8	8.9	K2	6	..	19137b
10	2850	47.1	-19 35	8.0	9.0	K2	5	2,4	41224b	60	6999	47.5	-27 52	9.1	9.7	F8	3	..	15600b
11	7709	47.1	-31 17	9.9	9.8	Fo	2	..	22915b	61	7854	47.5	-29 30	9.2	10.0	Fo	1	..	22915b
12	5678	47.1	-43 1	8.4	8.4	K5	5	..	19157b	62	6215	47.5	-34 48	8.7	9.0	F5	2	..	13116b
13	1508	47.1	-60 8	8.49	8.1	B8	6	..	40221b	63	5499	47.5	-45 44	5.72	7.3	Ko	..	0,6	28,204
14	1164	47.1	-65 41	9.4	9.8	F5	2	..	40221b	64	4749	47.5	-50 3	10.5	9.6	Ao	1	..	39864b
15	743	47.2	+65 43	9.1	10.1	Ko	2	..	38654i	65	4241	47.5	-52 5	11.5	9.6	F5	1	..	38408b
16	2156	47.2	+23 6	8.1	9.1	Ko	3	..	38642i	66	2878	47.5	-52 49	8.9	9.0	A2	4	..	38408b
17	2262	47.2	+ 2 46	8.9	9.2	F2	3	..	13393b	67	1510	47.5	-60 30	8.7	8.7	B8	5	..	40221b
18	2787	47.2	- 8 28	10.1	10.7	Go	1	..	19137b	68	1105	47.5	-64 42	9.7	9.8	A2	1	..	40221b
19	2920	47.2	-16 4	6.31	7.31	Ko	9	..	41224b	69	2261	47.6	+ 4 21	9.6	10.2	Go	3	..	13393b
20	2904	47.2	-16 53	9.0	9.6	Go	3	..	41224b	70	2283	47.6	+ 3 26	8.6	8.7	A2	7	..	13393b
21	6431	47.2	-33 59	9.4	10.1	F2	3	..	22915b	71	2790	47.6	- 8 55	9.2	9.3	A2	3	..	19137b
22	6119	47.2	-37 31	9.4	9.4	F5	1	..	13116b	72	2970	47.6	-14 53	9.1	10.1	Ko	1	..	41224b
23	6120	47.2	-38 4	9.4	9.3	A2	2	..	13116b	73	2851	47.6	-19 45	10.1	9.9	F5	1	..	41224b
24	5053	47.2	-48 7	10.0	9.2	Ao	3	..	39864b	74	8806	47.6	-23 27	8.7	9.0	F5	3	..	13145b
25	4572	47.2	-51 2	8.8	9.0	K2	1	..	39864b	75	7488	47.6	-26 56	8.7	9.0	A2	3	E	13145b
26	4234	47.2	-51 42	9.4	9.3	F2	4	..	38408b	76	7692	47.6	-28 36	8.1	9.4	Ko	4	..	22915b
27	4233	47.2	-52 3	10.5	9.5	A	1	..	38408b	77	6821	47.6	-32 31	7.18	7.7	G5	5	..	22915b
28	2765	47.2	-54 12	9.8	9.8	Ao	3	..	38408b	78	6218	47.6	-34 26	10.2	9.9	A2	2	..	22915b
29	2579	47.2	-55 26	9.1	9.5	Ao	3	..	38408b	79	5400	47.6	-42 3	9.6	9.3	A2	3	..	19157b
30	1668	47.2	-59 0	8.3	9.0	G5	4	..	40105b	80	4750	47.6	-49 46	10.2	9.3	Ao	2	..	39864b
31	1505	47.2	-59 32	9.0	9.6	G5	2	..	40105b	81	2588	47.6	-55 42	9.8	9.8	Ao	1	..	38408b
32	1506	47.2	-59 46	9.7	9.7	B9	2	..	40105b	82	389	47.7	+77 6	7.88	8.66	G5	6	5,4	37714i
33	588	47.3	+70 31	8.3	9.1	G5	3	..	37706i	83	1151	47.7	+61 36	6.42	7.42	Ko	8	..	38654i
34	543	47.3	+69 33	Neb.	Neb.	Con.	2	R	37706i	84	1413	47.7	+56 35	9.0	10.1	K2	1	..	38638i
35	2244	47.3	+ 4 53	9.11	9.89	G5	2	..	13393b	85	2073	47.7	+35 28	7.02	8.09	K2	5	..	38241i
36	2745	47.3	- 5 5	9.7	9.7	Ao	2	..	19137b	86	2391	47.7	+20 25	7.46	8.24	G5	5	..	37608i
37	3016	47.3	- 7 8	8.4	9.6	K5	2	..	19137b	87	2747	47.7	- 4 24	8.6	9.0	F5	2	..	22970b
38	2968	47.3	-13 17	9.0	9.8	G5	2	..	18996b	88	2927	47.7	- 5 41	8.4	9.4	Ko	4	..	19137b
39	7716	47.3	-31 36	9.4	10.4	A2	1	..	22915b	89	2988	47.7	-17 34	9.5	9.6	A2	2	..	41224b
40	5306	47.3	-47 36	10.2	9.3	Ao	3	..	39864b	90	7493	47.7	-26 16	9.9	9.3	Go	7	..	15600b
41	2872	47.3	-52 55	9.0	8.9	B	3	R	38408b	91	7492	47.7	-26 17	10.2	9.1	Go	6	2,5	15600b
42	1095	47.3	-67 2	9.3	9.3	Ao	3	..	40074b	92	7720	47.7	-31 58	8.9	10.5	K2	1	..	22915b
43	1125	47.3	-69 36	7.8	8.2	F5	4	..	22988b	93	5685	47.7	-43 4	9.8	8.9	Ao	3	..	19157b
44	624	47.4	+67 46	9.3	10.5	K5	1	..	38654i	94	2883	47.7	-52 43	8.6	8.9	Fo	6	..	38408b
45	2048	47.4	+34 25	8.3	9.1	G5	2	..	38241i	95	2885	47.7	-52 43	8.8	8.9	B5	4	..	38408b
46	1925	47.4	+30 45	9.5	10.1	G	1	..	37529i	96	1510	47.7	-60 4	7.54	7.3	Ao	5	..	34089b
47	2259	47.4	+ 4 0	9.6	10.2	Go	3	..	13393b	97	..	47.8	+35 24	var.	var.	Md	..	R	M
48	2995	47.4	- 2 32	9.0	10.0	Ko	2	..	22970b	98	2065	47.8	+10 4	8.9	9.7	G5	2	..	37610i
49	2946	47.4	-10 6	9.21	9.71	F8	3	..	19137b	99	2910	47.8	- 7 19	9.7	10.3	G	1	R	19137b
50	8801	47.4	-23 45	8.1	8.7	Ko	4	..	13145b	100	2909	47.8	-16 58	8.6	8.9	Fo	4	..	41224b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

85600

9^h 47^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8809	47.8	-23 18	9.4	9.0	G5	2	..	13145b	51	7498	48.1	-26 45	9.4	9.9	G5	2	..	15600b
2	7695	47.8	-28 12	8.9	8.7	Ao	5	..	22915b	52	6230	48.1	-34 38	8.4	8.5	A2	4	..	13116b
3	5504	47.8	-45 23	9.4	9.6	Ao	2	..	39864b	53	5695	48.1	-42 31	9.6	8.9	Ao	3	..	19157b
4	5507	47.8	-46 3	7.5	7.3	B8	..	3,7	28,204	54	2955	48.1	-53 14	10.1	10.1	Ao	2	..	38408b
5	5316	47.8	-47 28	9.2	9.9	Ko	1	..	39864b	55	1673	48.1	-58 57	5.78	7.4	K2	..	2,7	56,127
6	5065	47.8	-48 29	9.6	9.5	Ko	1	..	39864b	56	1335	48.1	-62 17	5.59	7.4	Ko	..	0,7	56,127
7	5067	47.8	-49 3	10.5	9.2	A3	2	..	39864b	57	1924	48.2	+44 42	9.42	9.08	Go	3	..	38336i
8	4248	47.8	-51 28	8.9	8.1	Ao	3	..	39864b	58	1972	48.2	+43 45	8.9	9.3	F5	3	..	38336i
9	2592	47.8	-55 13	9.8	9.8	Ao	2	..	38408b	59	1964	48.2	+29 39	9.08	9.50	F5	2	..	37529i
10	2379	47.8	-57 39	8.9	9.5	Go	2	..	40105b	60	2279	48.2	+19 24	7.9	7.9	Ao	5	..	37608i
11	1511	47.8	-60 37	9.1	9.9	Ao	2	..	40221b	61	2375	48.2	+1 18	9.2	10.2	Ko	2	..	13393b
12	1149	47.8	-67 57	6.84	7.8	G5	7	..	40074b	62	5683	48.2	-43 20	8.5	8.5	A5	6	..	19157b
13	467	47.8	-78 51	9.6	10.2	Go	2	..	21453b	63	5073	48.2	-48 11	9.8	9.8	Ko	1	..	39864b
14	1963	47.9	+29 39	9.26	9.82	Go	1	..	37529i	64	5074	48.2	-48 24	10.2	9.3	Ao	2	..	39864b
15	2021	47.9	+26 7	7.04	8.11	K2	6	..	38642i	65	4758	48.2	-49 36	9.2	9.2	Go	2	..	39864b
16	2373	47.9	+1 37	8.3	9.3	Ko	4	..	13393b	66	2790	48.2	-54 55	8.23	8.3	A5	7	..	38408b
17	2921	47.9	-15 55	8.6	9.1	F8	5	..	41224b	67	1676	48.2	-58 40	8.8	10.2	Ma	1	..	40105b
18	2991	47.9	-17 38	9.2	10.2	K	1	..	41224b	68	1513	48.2	-59 19	8.9	9.6	A2	3	..	40105b
19	2803	47.9	-18 43	9.7	10.1	F5	1	..	41224b	69	1514	48.2	-59 21	9.3	10.5	K5	1	..	40105b
20	5403	47.9	-41 58	9.8	9.5	Ao	3	..	19157b	70	1101	48.2	-66 40	8.4	8.7	Fo	5	..	40221b
21	5944	47.9	-44 41	7.9	8.2	B9	9	..	19157b	71	642	48.2	-74 22	9.3	10.1	G5	2	..	21453b
22	5508	47.9	-46 5	4.56	6.9	G5	..	0,8 R	28,204	72	1816	48.3	+28 10	7.57	7.57	Ao	7	..	38642i
23	2887	47.9	-52 25	8.5	8.9	Go	6	..	38408b	73	1821	48.3	+27 45	9.1	10.1	Ko	1	..	37529i
24	2950	47.9	-53 20	9.5	9.8	Fo	2	..	38408b	74	2393	48.3	+20 43	9.5	10.3	G5	2	..	37608i
25	2593	47.9	-55 48	8.4	9.5	K5	3	..	38408b	75	2264	48.3	+2 31	var.	var.	A2	3	R	13393b
26	2380	47.9	-57 30	8.9	10.1	Ko	1	..	40105b	76	2263	48.3	-0 19	8.38	9.45	K2	5	..	13393b
27	1511	47.9	-59 9	9.0	9.0	Ao	2	..	40105b	77	2928	48.3	-21 29	9.9	9.6	A2	2	..	13145b
28	1169	47.9	-65 39	8.8	8.9	A2	5	..	40221b	78	7502	48.3	-26 48	10.2	10.5	K5	1	..	15600b
29	1098	47.9	-66 16	8.7	8.7	B9	4	..	40221b	79	7867	48.3	-29 23	9.4	9.9	F2	2	..	22915b
30	552	47.9	-77 29	10.0	10.0	Ao	1	..	21453b	80	7981	48.3	-30 47	8.9	9.3	G5	2	..	22915b
31	640	48.0	+66 15	8.6	9.2	Go	3	..	38654i	81	5953	48.3	-44 35	9.2	9.0	A2	4	..	19157b
32	2022	48.0	+26 33	8.8	9.3	F8	1	..	37529i	82	5078	48.3	-49 4	9.6	9.8	K2	1	..	39864b
33	2117	48.0	+11 38	8.7	9.5	G5	1	..	37610i	83	2792	48.3	-54 11	7.2	7.7	Go	8	..	38408b
34	2245	48.0	+5 0	8.3	8.4	A2	7	..	13393b	84	1514	48.3	-60 38	8.5	10.4	K5	1	..	40221b
35	2912	48.0	-7 49	9.9	10.2	F2	2	..	19137b	85	1107	48.3	-64 59	8.18	8.1	B8	6	..	40221b
36	2992	48.0	-17 53	9.0	10.0	Ko	2	..	41224b	86	878	48.3	-71 48	9.6	9.7	A2	2	..	39946b
37	8812	48.0	-23 15	8.5	8.7	G5	4	..	13145b	87	622	48.3	-75 42	9.0	9.1	A2	5	..	21453b
38	5682	48.0	-43 27	10.9	10.1	Ao	2	..	19157b	88	1925	48.4	+44 15	8.7	9.2	F8	3	..	38336i
39	2952	48.0	-53 23	9.4	9.5	A2	3	..	38408b	89	2127	48.4	+15 12	7.89	8.45	Go	5	..	37610i
40	2382	48.0	-57 33	9.0	9.8	G5	2	..	40105b	90	2953	48.4	-9 26	7.04	7.04	Ao	10	..	19137b
41	1512	48.0	-59 22	9.3	9.6	Fo	3	..	40105b	91	2752	48.4	-12 8	8.6	9.6	Ko	4	..	18996b
42	656	48.0	-73 26	8.7	9.1	F5	4	..	21453b	92	3013	48.4	-13 5	8.6	9.4	G5	2	..	18996b
43	621	48.0	-75 19	6.90	7.4	F5	10	..	21453b	93	7503	48.4	-26 17	7.9	8.5	A5	7	..	13145b
44	474	48.1	+71 53	9.3	9.8	F8	2	..	37714i	94	7871	48.4	-29 54	9.5	9.4	Ao	4	..	22915b
45	1894	48.1	+48 49	8.6	9.6	Ko	2	..	38336i	95	5703	48.4	-42 30	9.6	9.8	K2	1	..	19157b
46	2374	48.1	+1 26	9.0	9.8	G5	2	..	13393b	96	5685	48.4	-43 11	10.5	9.9	Ao	2	..	19157b
47	3020	48.1	-6 53	9.0	10.1	K2	2	..	19137b	97	4257	48.4	-51 54	9.4	8.6	A5	6	..	38408b
48	2923	48.1	-15 27	8.6	9.7	K2	4	..	41224b	98	2957	48.4	-53 53	9.8	9.8	Ao	3	..	38408b
49	2993	48.1	-17 48	8.6	9.0	F5	4	..	41224b	99	2600	48.4	-56 2	9.0	9.0	Ao	4	..	38408b
50	7499	48.1	-26 21	10.2	9.9	Ao	2	..	15600b	100	2592	48.4	-56 34	9.8	9.8	Ao	3	..	40105b

THE HENRY DRAPER CATALOGUE.

85700

9^h 48^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1515	48.4	-59 52	8.8	8.5	Go	3	..	40221b	51	2955	48.8	-9 39	8.7	9.2	F8	4	..	19137b
2	1337	48.4	-62 42	8.4	8.4	Ao	4	..	40221b	52	2806	48.8	-19 1	7.6	8.4	G5	5	..	13145b
3	1201	48.4	-63 47	8.2	9.2	Ko	5	..	40221b	53	3042	48.8	-20 34	9.0	9.3	G5	2	..	41224b
4	553	48.4	-78 6	8.8	10.0	K5	4	..	21453b	54	2751	48.8	-22 18	9.0	9.6	Ko	2	..	13145b
5	321	48.5	+80 53	8.6	9.1	F8	2	..	37465i	55	7574	48.8	-25 41	8.3	9.4	K5	2	..	13145b
6	2061	48.5	+42 38	8.7	9.7	Ko	2	..	38336i	56	5994	48.8	-35 30	8.7	9.7	Ma	3	..	22915b
7	2077	48.5	+35 14	8.5	9.7	K5	1	..	38241i	57	5583	48.8	-46 40	9.8	9.9	K	1	..	39864b
8	2066	48.5	+31 8	8.1	8.5	F5	3	..	37529i	58	2903	48.8	-52 11	7.4	8.4	Ko	8	..	38408b
9	2224	48.5	+6 26	6.27	7.62	Ma	9	..	13393b	59	2800	48.8	-54 8	9.0	9.5	Fo	4	..	38408b
10	2264	48.5	-1 9	8.6	9.7	K2	3	..	22970b	60	1338	48.8	-62 33	9.5	9.6	A2	2	..	40221b
11	2915	48.5	-7 34	9.7	10.3	G	1	..	19137b	61	2247	48.9	+5 25	9.2	10.2	Ko	2	..	13393b
12	2971	48.5	-13 29	8.8	9.1	F2	3	..	18996b	62	2248	48.9	+5 25	6.98	8.16	K5	8	..	13393b
13	8819	48.5	-23 56	8.9	9.7	Ko	2	..	13145b	63	2803	48.9	-3 33	9.5	10.3	G5	1	..	22970b
14	5704	48.5	-43 5	10.5	9.5	A	1	..	19157b	64	2915	48.9	-17 2	9.5	9.5	Ao	3	..	41224b
15	2594	48.5	-56 39	8.9	9.0	B9	4	..	40105b	65	8831	48.9	-23 38	8.1	9.3	K5	2	..	13145b
16	1678	48.5	-58 49	8.7	8.7	Ao	3	..	40105b	66	7989	48.9	-30 26	10.4	10.0	A2	2	..	22915b
17	1774	48.6	+45 9	9.1	9.9	G5	3	..	38336i	67	2599	48.9	-56 31	9.5	9.5	B8	3	..	40105b
18	2288	48.6	+39 36	8.7	9.7	Ko	1	..	38241i	68	1516	48.9	-59 58	8.54	8.7	Go	5	..	40221b
19	1950	48.6	+32 44	8.5	9.3	G5	2	E	37529i	69	1352	48.9	-61 34	8.7	8.7	B9	4	..	40221b
20	2067	48.6	+10 44	7.9	9.3	Mb	2	..	37610i	70	1416	49.0	+55 53	9.3	10.3	Ko	1	..	38224i
21	3003	48.6	-2 21	9.0	10.1	K2	1	..	22970b	71	1818	49.0	+27 49	8.9	9.9	Ko	1	..	37529i
22	2924	48.6	-15 30	9.5	10.7	K5	1	..	41224b	72	2956	49.0	-10 7	8.31	8.73	F5	5	..	18996b
23	2994	48.6	-17 27	7.8	9.2	Ma	4	..	41224b	73	2754	49.0	-22 22	9.5	9.9	Ko	1	..	13145b
24	3040	48.6	-20 20	8.93	9.3	Go	3	..	41224b	74	2753	49.0	-22 29	8.58	9.3	Ko	3	..	13145b
25	7505	48.6	-26 52	6.32	7.3	F8	4	..	7734b	75	5700	49.0	-43 49	10.2	10.1	F8	1	..	19157b
26	6839	48.6	-32 18	9.3	10.7	Ko	1	..	22915b	76	4772	49.0	-49 50	10.2	9.3	B9	1	..	39864b
27	6134	48.6	-37 40	9.1	9.6	Ko	1	..	13116b	77	4265	49.0	-51 14	7.5	7.6	B5	6	..	39864b
28	5916	48.6	-39 31	8.0	8.6	A2	6	0,6	13116b	78	2613	49.0	-55 16	9.7	9.8	A3	2	..	38408b
29	5917	48.6	-40 5	9.18	8.9	B9	3	..	19157b	79	2600	49.0	-56 11	9.1	10.4	Ko	2	..	40105b
30	5708	48.6	-42 11	9.2	9.5	Ko	1	..	19157b	80	1679	49.0	-58 22	8.0	9.3	K5	4	..	40105b
31	2963	48.6	-53 33	10.4	10.4	Ao	2	..	38408b	81	1517	49.0	-59 28	8.8	8.8	B8	4	..	40105b
32	872	48.6	-72 52	8.8	9.4	Go	2	..	39946b	82	469	49.0	-78 19	8.7	9.5	G5	6	..	21453b
33	643	48.6	-74 56	10.0	10.1	A2	2	..	21453b	83	1896	49.1	+48 56	7.9	8.0	A2	4	..	38336i
34	2802	48.7	-3 24	7.34	7.32	B9	8	..	22970b	84	2792	49.1	-8 15	9.1	10.2	K2	1	..	19137b
35	2925	48.7	-15 17	8.66	10.01	Ma	1	..	41224b	85	7886	49.1	-29 15	9.1	9.9	F8	3	..	22915b
36	2750	48.7	-23 13	7.8	8.7	Ko	4	..	13145b	86	7887	49.1	-29 58	10.2	10.5	Go	1	..	22915b
37	5710	48.7	-42 18	9.6	9.0	A2	3	..	19157b	87	6467	49.1	-33 39	8.7	9.0	Ao	2	..	13116b
38	5517	48.7	-45 48	9.0	9.0	A2	4	..	39864b	88	5994	49.1	-36 57	8.7	9.0	F8	4	..	13116b
39	2968	48.7	-53 25	8.7	8.1	Ao	7	..	38408b	89	5718	49.1	-42 18	9.8	9.0	Ao	3	..	19157b
40	2964	48.7	-53 49	8.4	8.6	B	6	R	38408b	90	4267	49.1	-51 58	11.5	9.5	A2	2	..	38408b
41	1516	48.7	-60 7	7.69	8.4	Ko	6	..	40221b	91	2907	49.1	-53 3	8.3	8.9	Go	6	..	38408b
42	174	48.7	-86 47	8.0	8.0	Ao	7	..	13459b	92	2396	49.1	-57 47	9.5	9.5	Ao	3	..	40105b
43	544	48.8	+69 22	9.3	10.3	K	1	..	37706i	93	600	49.1	-76 33	8.4	9.4	Ko	5	..	21453b
44	2079	48.8	+37 54	8.6	8.6	Ao	3	..	38241i	94	390	49.2	+77 45	8.5	9.3	G5	2	..	37465i
45	1969	48.8	+29 10	8.1	8.5	F5	2	E	38642i	95	1698	49.2	+50 17	5.34	5.40	A2	..	0, R	56,87
46	2141	48.8	+21 56	9.7	10.2	F8	1	..	38642i	96	2262	49.2	+3 48	8.1	8.4	Fo	8	..	13393b
47	2152	48.8	+17 38	8.3	9.1	G5	2	..	37608i	97	2976	49.2	-14 11	9.2	9.5	F2	2	..	18996b
48	2285	48.8	+8 33	7.09	7.87	G5	5	..	37610i	98	2856	49.2	-19 22	9.0	9.3	G5	1	..	13145b
49	2203	48.8	+7 25	8.5	8.6	A3	7	..	13393b	99	3043	49.2	-20 36	9.5	9.9	K2	1	..	41224b
50	2377	48.8	+1 46	10.2	10.8	G	1	..	13393b	100	2933	49.2	-22 4	9.0	9.6	G5	2	..	13145b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

85800

9^h 49^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7888	49.2	-29 31	9.4	10.5	Ko	1	..	22915b	51	2984	49.5	-53 44	8.9	8.9	B9	4	..	38408b
2	7994	49.2	-30 13	9.45	10.5	Ko	2	..	22915b	52	1519	49.5	-60 31	8.7	9.0	Ao	3	..	40221b
3	5996	49.2	-36 47	8.7	8.8	A2	4	..	13116b	53	1110	49.5	-66 19	8.6	8.6	B9	5	..	40221b
4	6142	49.2	-37 56	7.44	8.1	F8	7	..	13116b	54	414	49.6	+73 58	8.9	9.2	Fo	4	..	37714i
5	5926	49.2	-39 21	8.7	8.9	A3	4	0.4	13116b	55	2206	49.6	+7 38	8.3	8.3	Ao	6	..	9463b
6	5587	49.2	-46 13	8.8	9.3	G5	3	..	39864b	56	2263	49.6	+4 29	8.5	8.9	F5	5	..	13393b
7	4601	49.2	-50 34	9.2	8.9	A2	3	..	39864b	57	2752	49.6	-4 37	8.7	9.8	K2	3	..	19137b
8	2977	49.2	-53 29	9.3	10.1	G5	2	..	38408b	58	3019	49.6	-12 27	8.5	8.5	Ao	6	..	18996b
9	2976	49.2	-53 51	9.1	9.5	B	3	..	38408b	59	7585	49.6	-25 28	5.00	7.1	Ko	..	0.7	56.87
10	2808	49.2	-54 59	8.18	8.3	B8	7	..	38408b	60	7035	49.6	-27 32	6.88	6.7	B9	4	..	7734b
11	2619	49.2	-55 35	8.9	10.3	Fo	2	..	38408b	61	6854	49.6	-32 46	7.56	7.6	Fo	6	5.6	22915b
12	2618	49.2	-55 45	9.1	9.8	A2	1	..	38408b	62	6145	49.6	-37 35	9.4	9.1	F5	2	..	13116b
13	1680	49.2	-58 53	9.5	10.1	Go	1	..	40105b	63	5423	49.6	-41 50	8.0	8.3	F2	8	..	19157b
14	1156	49.2	-67 36	9.8	9.8	A	1	..	40074b	64	5424	49.6	-41 59	9.0	9.8	G5	1	..	19157b
15	873	49.2	-72 45	9.1	9.1	Ao	3	..	39946b	65	5728	49.6	-42 20	10.0	9.5	F	1	..	19157b
16	1221	49.3	+59 55	8.31	9.38	K2	3	..	38224i	66	5591	49.6	-46 17	9.0	9.3	Go	2	..	39864b
17	2266	49.3	+2 23	9.6	10.4	G5	2	..	13393b	67	4280	49.6	-51 36	9.1	9.3	K2	2	..	38408b
18	2379	49.3	+0 55	9.19	9.69	F8	4	..	13393b	68	4279	49.6	-52 6	10.9	9.5	Ao	1	..	38408b
19	7514	49.3	-26 7	9.7	9.7	Go	3	..	15600b	69	2911	49.6	-52 25	8.8	8.9	F2	5	..	38408b
20	7748	49.3	-31 38	7.90	8.4	F8	7	..	22915b	70	2815	49.6	-54 17	10.1	10.1	Ao	2	..	38408b
21	5706	49.3	-44 7	7.5	8.1	F5	8	..	19157b	71	2816	49.6	-54 54	6.68	6.7	Bo	8	..	38797b
22	5339	49.3	-48 1	9.6	10.2	Ko	1	..	39864b	72	1519	49.6	-59 46	9.9	9.9	Ao	2	..	40105b
23	5098	49.3	-49 2	10.5	9.3	Go	1	..	39864b	73	1343	49.6	-62 18	8.9	9.0	A2	3	..	40221b
24	4775	49.3	-49 18	9.4	9.2	A3	3	..	39864b	74	879	49.6	-71 40	8.5	8.6	A3	4	..	22988b
25	4603	49.3	-51 1	8.3	9.2	K5	1	..	39864b	75	624	49.6	-75 24	9.7	10.2	F8	2	..	21453b
26	1353	49.3	-61 57	8.4	8.7	F5	4	..	40221b	76	1337	49.7	+54 44	6.76	8.11	Ma	6	..	38638i
27	658	49.3	-73 44	7.8	7.8	Ao	9	..	21453b	77	1338	49.7	+54 31	8.9	9.4	F8	1	..	38638i
28	545	49.4	+68 57	8.1	9.1	Ko	5	..	37706i	78	2027	49.7	+37 40	8.7	9.5	G5	2	..	38241i
29	1431	49.4	+52 44	6.79	7.79	Ko	7	..	38638i	79	2267	49.7	+2 21	9.9	10.3	F5	2	..	13393b
30	1557	49.4	+51 40	8.6	9.0	F5	3	..	38638i	80	2807	49.7	-3 31	9.2	9.7	F8	2	..	22970b
31	2205	49.4	+7 33	9.2	9.5	Fo	4	..	9463b	81	2920	49.7	-7 21	8.5	8.5	Ao	5	..	19137b
32	2380	49.4	+1 40	9.4	10.4	Ko	1	..	13393b	82	2756	49.7	-11 35	9.5	10.0	F8	1	..	18996b
33	2381	49.4	+1 25	7.68	8.18	F8	8	..	13393b	83	3021	49.7	-12 28	7.02	7.52	F8	9	..	18996b
34	2266	49.4	-0 48	8.3	8.3	B8	6	..	22970b	84	2917	49.7	-16 54	9.2	10.3	K2	1	..	41224b
35	2997	49.4	-17 48	8.0	8.3	F2	7	..	41224b	85	2857	49.7	-19 50	8.5	9.0	G5	3	..	13145b
36	5340	49.4	-47 48	9.8	9.6	F2	2	..	39864b	86	7586	49.7	-25 42	10.4	9.9	G5	2	..	15600b
37	5100	49.4	-48 27	8.0	8.0	Ko	5	..	39864b	87	6146	49.7	-37 49	8.0	8.7	Ao	4	..	13116b
38	4273	49.4	-51 38	8.0	8.1	G5	7	..	38408b	88	5425	49.7	-41 22	7.4	7.8	Fo	8	..	19157b
39	2981	49.4	-53 27	9.9	10.3	F5	1	..	38408b	89	4613	49.7	-51 2	10.0	8.9	A2	2	..	39864b
40	1341	49.4	-62 11	9.0	9.0	Ao	3	..	40221b	90	4282	49.7	-51 24	9.6	8.3	B8	6	..	38408b
41	478	49.5	+73 21	5.96	6.96	Ko	9	..	37714i	91	2820	49.7	-54 33	8.9	10.9	Ko	1	..	38408b
42	1778	49.5	+45 39	8.9	9.7	G5	4	..	38336i	92	556	49.7	-77 49	7.8	7.8	B8	10	..	21453b
43	2178	49.5	+25 7	7.16	7.66	F8	7	..	38642i	93	625	49.8	+67 14	8.5	9.6	K2	3	..	38654i
44	2581	49.5	+0 3	8.1	8.2	A2	7	..	13393b	94	2753	49.8	-5 5	8.90	9.18	Fo	5	..	19137b
45	2319	49.5	-2 9	8.07	9.07	Ko	6	..	22970b	95	2921	49.8	-7 29	9.7	10.5	G5	2	..	19137b
46	2806	49.5	-3 58	8.6	9.7	K2	4	..	22970b	96	2918	49.8	-17 9	9.5	9.6	A3	2	..	41224b
47	8551	49.5	-25 0	8.34	9.3	K2	3	..	13145b	97	2756	49.8	-22 51	8.6	8.5	Go	3	..	13145b
48	6003	49.5	-35 56	10.0	9.3	Ko	2	..	13116b	98	5504	49.8	-41 4	9.0	9.5	Fo	1	..	19157b
49	5726	49.5	-42 44	9.0	9.3	Ko	2	..	19157b	99	4284	49.8	-51 16	9.2	9.5	Ko	1	..	38408b
50	4608	49.5	-50 28	9.0	8.7	F8	2	..	39864b	100	2607	49.8	-56 58	9.8	9.8	Ao	2	..	40105b

THE HENRY DRAPER CATALOGUE.

85900

9^h 49^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	394	49.8	-80 36	8.19	9.4	Ma	6	5,1	21453b	51	2810	50.2	-18 32	5.16	6.51	Ma	..	5,10	28,204
2	2083	49.9	+38 33	8.1	8.7	Go	4	..	38241i	52	8563	50.2	-24 28	9.4	9.9	F5	1	..	15600b
3	2072	49.9	+31 38	8.8	10.0	K5	..	..	M	53	4622	50.2	-50 40	6.00	6.7	B3	..	2,10	56,127
4	2582	49.9	+0 17	8.1	9.5	Ma	5	..	13393b	54	4291	50.2	-51 10	9.8	9.2	F5	3	..	38408b
5	2935	49.9	-22 1	6.34	6.4	A2	6	..	7734b	55	1521	50.2	-59 41	10.1	10.1	Ao	2	..	40105b
6	7042	49.9	-28 2	8.7	9.3	G5	2	E	22915b	56	1356	50.2	-61 52	8.2	8.4	Ao	3	..	34089b
7	7724	49.9	-28 21	8.5	9.6	Ko	2	E	22915b	57	557	50.2	-77 29	9.9	10.0	A2	2	..	21453b
8	6859	49.9	-32 51	9.0	9.0	G5	3	..	22915b	58	1933	50.3	+30 15	8.1	8.6	F8	4	..	37529i
9	6003	49.9	-36 9	9.4	9.1	Ao	3	..	13116b	59	2287	50.3	+8 33	9.2	9.5	F2	4	..	9463b
10	5545	49.9	-45 21	9.6	9.6	A2	2	..	39864b	60	2289	50.3	+3 29	10.6	11.2	Go	1	..	13393b
11	4618	49.9	-50 9	9.8	9.3	Ao	1	..	39864b	61	2948	50.3	-10 34	7.56	8.63	K2	7	..	18996b
12	2608	49.9	-56 42	9.0	9.5	Fo	3	..	40105b	62	7906	50.3	-29 14	8.3	9.3	F5	3	..	22915b
13	1683	49.9	-58 53	9.9	9.9	B9	2	..	40105b	63	6256	50.3	-34 26	7.15	8.1	A2	8	..	13116b
14	1111	49.9	-66 39	8.7	8.7	Ao	4	..	40221b	64	6009	50.3	-36 49	7.50	8.2	F2	7	..	13116b
15	762	50.0	+63 50	7.67	8.45	G5	4	0,4	38654i	65	6152	50.3	-37 43	9.1	9.7	K2	2	..	39922b
16	2072	50.0	+10 34	8.1	8.9	G5	3	..	37610i	66	5736	50.3	-42 27	8.0	8.3	G5	7	..	19157b
17	2268	50.0	+0 55	8.9	9.7	G5	2	..	22970b	67	5605	50.3	-46 37	9.6	10.1	Ko	1	..	39864b
18	3027	50.0	+7 0	9.2	10.3	K2	1	..	19137b	68	5354	50.3	-47 44	9.4	9.3	Ao	4	..	39864b
19	2938	50.0	-21 43	9.0	9.7	A5	2	..	13145b	69	2634	50.3	-55 31	9.5	9.5	Ao	3	..	38408b
20	8005	50.0	-30 56	9.1	10.0	K2	1	..	22915b	70	1347	50.3	-63 2	9.1	9.6	F8	3	..	40221b
21	6004	50.0	-35 52	9.4	9.4	A5	1	..	13116b	71	661	50.3	-74 1	10.0	10.1	A3	1	..	21453b
22	5716	50.0	-43 25	10.5	10.1	A	1	..	19157b	72	1820	50.4	+47 57	8.7	9.7	Ko	2	..	38336i
23	5348	50.0	-47 44	9.4	9.6	Ao	3	..	39864b	73	1931	50.4	+44 27	8.3	8.8	F8	2	..	38291i
24	2994	50.0	-53 49	8.3	8.6	B8	7	..	38408b	74	2012	50.4	+35 47	7.7	8.7	Ko	3	..	38241i
25	2831	50.0	-54 30	9.5	10.1	Go	1	..	38408b	75	1953	50.4	+32 44	8.8	9.8	Ko	1	..	37529i
26	881	50.0	-71 55	9.7	9.7	Ao	2	..	39946b	76	2026	50.4	+26 28	8.1	9.1	Ko	5	0,2	38642i
27	329	50.1	+78 18	9.1	9.7	G	1	..	37493i	77	2795	50.4	+9 12	8.8	9.9	K2	2	..	19137b
28	1223	50.1	+58 23	9.3	10.1	G5	1	..	38224i	78	7045	50.4	-27 37	8.3	9.4	G5	4	..	15600b
29	2180	50.1	+25 41	8.8	9.3	F8	1	..	38642i	79	6012	50.4	-38 33	8.8	9.8	Ko	2	..	40276b
30	2160	50.1	+23 6	9.1	10.1	Ko	1	..	38642i	80	5987	50.4	-44 49	5.75	6.0	B5	..	..	56,127
31	2124	50.1	+21 27	9.1	9.2	A2p	3	E	38642i	81	5115	50.4	-49 5	9.6	9.0	F2	2	..	39864b
32	2283	50.1	+19 17	7.9	8.2	Fo	5	..	37608i	82	2837	50.4	-54 37	9.5	10.7	K5	1	..	38408b
33	2793	50.1	+9 5	9.5	10.3	G5	1	..	19137b	83	2639	50.4	-55 25	9.8	9.8	Ao	3	..	38408b
34	2959	50.1	+9 42	8.7	9.9	K5	2	..	19137b	84	1686	50.4	-58 49	10.2	10.2	Ao	1	..	40105b
35	2919	50.1	-16 17	9.2	10.2	Ko	3	..	41224b	85	1116	50.4	-64 38	8.9	10.1	K5	1	..	40221b
36	6483	50.1	-34 1	10.2	10.8	A5	2	..	22915b	86	1159	50.4	-67 37	8.8	9.8	K	1	..	40074b
37	6006	50.1	-35 19	8.8	9.4	Ko	1	..	13116b	87	872	50.5	+62 56	8.3	9.4	K2	3	2,2	37725i
38	2918	50.1	-52 56	8.3	8.1	Fo	7	..	38408b	88	2291	50.5	+18 1	7.7	8.0	F2	4	..	37608i
39	2996	50.1	-53 23	9.4	9.5	A5	3	..	38408b	89	2384	50.5	+1 39	9.2	9.7	F8	2	..	13393b
40	2997	50.1	-53 45	9.6	9.8	Ao	2	..	38408b	90	2270	50.5	+0 39	8.1	9.1	Ko	5	..	22970b
41	1684	50.1	-58 11	8.4	8.8	F2	6	..	40105b	91	2941	50.5	-21 52	8.4	9.1	Ko	3	..	13145b
42	1520	50.1	-59 36	10.1	10.2	A2	2	..	40105b	92	2759	50.5	-23 1	7.92	9.4	K2	3	..	13145b
43	1158	50.1	-67 8	8.4	8.4	Ao	4	E	40221b	93	8567	50.5	-24 53	9.5	10.5	Ma	1	..	15600b
44	1127	50.1	-69 19	8.3	9.1	G5	1	..	22988b	94	7596	50.5	-26 4	8.9	9.3	Ko	4	..	13145b
45	1224	50.2	+57 54	5.99	6.77	G5	7	..	38638i	95	6259	50.5	-34 22	9.3	9.9	Ko	2	..	22915b
46	1824	50.2	+27 19	8.1	9.1	Ko	4	0,2	38642i	96	5948	50.5	-39 44	8.2	8.9	Ko	2	..	19157b
47	2290	50.2	+18 36	9.0	9.6	G	2	..	37608i	97	5613	50.5	-46 10	6.74	8.2	Ko	7	..	39864b
48	2758	50.2	-12 0	7.68	7.96	Fo	8	..	18996b	98	4295	50.5	-51 17	9.0	8.9	G5	4	..	38408b
49	2929	50.2	-15 43	6.67	7.23	Go	9	..	41224b	99	2840	50.5	-54 19	9.0	8.9	A2	2	..	38797b
50	3003	50.2	-17 39	9.5	10.1	Go	2	..	41224b	100	2842	50.5	-54 22	7.7	7.8	B8	4	..	38797b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

86000

9^h 50^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	642	m. 50.6	• +66 23	8.6	8.7	A2	3	..	38654i	51	5440	m. 50.9	• -41 55	10.4	9.6	Ao	2	..	19157b
2	2289	50.6	+ 8 9	6.72	7.72	Ko	5	..	37610i	52	2647	50.9	-55 54	9.4	9.5	A2	3	..	40105b
3	2757	50.6	- 4 30	7.22	8.20	K2	9	..	19137b	53	1213	50.9	-63 43	9.4	9.5	A2	3	..	40221b
4	7911	50.6	-29 10	9.9	10.7	Go	1	..	22915b	54	1162	50.9	-67 17	8.8	9.8	K	1	..	40074b
5	5741	50.6	-42 51	7.7	8.6	Ko	6	..	19157b	55	882	50.9	-71 28	6.7	6.7	B8	8	..	22988b
6	5556	50.6	-45 16	8.58	8.5	G5	3	..	39864b	56	371	51.0	+76 29	7.9	9.0	K2	2	..	37714i
7	2923	50.6	-52 34	9.0	9.8	Ko	1	..	38408b	57	1565	51.0	+46 24	8.6	9.2	Go	3	..	38336i
8	2409	50.6	-57 9	8.9	9.3	B9	4	..	40105b	58	2085	51.0	+38 33	9.5	10.3	G5	1	..	38241i
9	1160	50.6	-67 52	9.4	9.4	Ao	2	..	40074b	59	2128	51.0	+11 9	8.5	8.5	Ao	3	..	37610i
10	1161	50.6	-67 56	8.9	9.7	G5	1	..	40074b	60	2075	51.0	+10 43	8.5	9.3	G5	1	..	37610i
11	1724	50.7	+47 47	8.7	9.7	Ko	1	..	38336i	61	2798	51.0	- 8 41	9.0	9.3	F2	3	..	19137b
12	1920	50.7	+32 51	6.60	6.94	F2	7	0,8	37529i	62	2950	51.0	-10 47	8.8	9.8	Ko	1	..	18996b
13	2585	50.7	+ 0 21	10.6	11.0	F5	2	..	13393b	63	3029	51.0	-13 1	8.8	9.6	G5	1	..	18996b
14	2962	50.7	- 9 22	9.2	9.7	F8	2	..	19137b	64	2979	51.0	-15 12	9.7	9.7	Ao	2	..	41224b
15	2811	50.7	-18 22	9.7	10.2	F8	2	..	41224b	65	3007	51.0	-17 39	9.1	10.2	K2	1	..	41224b
16	7047	50.7	-28 4	7.7	9.1	Ko	7	..	22915b	66	2814	51.0	-19 12	7.38	7.2	Ao	8	..	13145b
17	6490	50.7	-34 3	9.6	11.3	K2	1	..	22915b	67	7744	51.0	-28 29	9.9	9.6	A3	2	..	15600b
18	6013	50.7	-35 9	8.39	9.3	Ko	1	..	13116b	68	6265	51.0	-34 21	10.0	9.9	Ao	2	..	22915b
19	6016	50.7	-36 52	8.0	8.7	Ao	6	..	13116b	69	5995	51.0	-44 20	8.6	9.0	Fo	4	..	19157b
20	5122	50.7	-48 54	8.9	8.0	B9	6	..	39864b	70	5361	51.0	-47 36	9.2	9.6	Ko	2	..	39864b
21	3006	50.7	-53 10	9.0	9.8	G5	1	..	38408b	71	4796	51.0	-49 10	9.6	9.6	K	1	..	39864b
22	2410	50.7	-57 10	8.9	9.2	Ao	4	..	40105b	72	4635	51.0	-51 4	9.6	9.5	A5	2	..	38408b
23	471	50.7	-78 9	9.5	9.8	F	2	R	21453b	73	3010	51.0	-53 29	9.1	10.1	Ko	2	..	38408b
24	626	50.8	+67 36	9.5	10.7	K5	1	..	38654i	74	2648	51.0	-55 9	9.3	9.3	Ao	3	..	38408b
25	1093	50.8	+62 36	8.1	9.1	Ko	3	E	38654i	75	1690	51.0	-58 54	10.5	10.5	Ao	1	..	40105b
26	2029	50.8	+37 14	8.7	9.7	Ko	1	..	38241i	76	1359	51.0	-61 39	7.4	7.8	A2	3	..	34089b
27	2290	50.8	+ 3 16	8.5	8.5	Ao	8	..	13393b	77	602	51.0	-76 51	9.0	10.1	K2	3	..	21453b
28	2939	50.8	- 5 41	8.6	9.6	Ko	4	..	19137b	78	520	51.1	+71 15	9.0	9.5	F8	2	..	37706i
29	2797	50.8	- 8 22	6.54	6.62	A3	6	..	10987b	79	2184	51.1	+25 32	8.7	9.3	Go	2	..	38642i
30	2921	50.8	-17 0	7.10	8.45	Ma	7	..	41224b	80	2262	51.1	+ 9 24	5.93	6.93	Ko	8	0,7	37610i
31	2865	50.8	-19 31	8.0	8.2	Ao	6	..	13145b	81	2815	51.1	- 3 21	8.4	8.9	F8	3	..	22970b
32	7739	50.8	-28 48	8.0	9.7	K5	1	..	22915b	82	3033	51.1	- 7 0	7.03	8.03	Ko	7	..	19137b
33	6877	50.8	-32 37	9.4	9.4	A2	3	..	22915b	83	3049	51.1	-20 17	7.68	8.0	Go	6	..	13145b
34	5743	50.8	-43 5	8.3	8.7	K2	4	..	19157b	84	6157	51.1	-37 31	9.4	9.9	A	2	..	39922b
35	5557	50.8	-45 18	8.3	8.5	Ao	5	..	39864b	85	6018	51.1	-38 17	8.5	8.6	B3	3	..	13116b
36	4791	50.8	-49 47	9.2	9.3	K2	1	..	39864b	86	6019	51.1	-38 27	9.3	10.1	K5	1	..	40276b
37	2926	50.8	-52 31	8.7	9.0	Ao	5	..	38408b	87	4801	51.1	-49 46	5.89	6.3	Ao	..	0,9	56,127
38	3008	50.8	-53 45	8.5	10.4	K5	2	..	38408b	88	1117	51.1	-64 38	9.8	9.8	A	1	..	40221b
39	2846	50.8	-54 37	9.5	9.5	Ao	3	..	38408b	89	949	51.1	-70 59	7.4	8.5	K2	4	..	22988b
40	1523	50.8	-59 18	8.8	10.5	Ko	1	..	40105b	90	1822	51.2	+28 34	8.1	8.6	F8	5	0,4	37529i
41	1524	50.8	-59 23	9.9	9.9	B9	1	..	40105b	91	2136	51.2	+15 13	7.54	8.32	G5	4	0,3	37608i
42	1222	50.9	+60 45	8.8	9.3	F8	3	..	38224i	92	2265	51.2	+ 4 15	9.2	10.3	K2	2	..	13393b
43	2161	50.9	+23 36	8.9	9.7	G5	2	..	38642i	93	2926	51.2	- 7 17	9.7	9.8	A2	1	..	19137b
44	2264	50.9	+ 3 56	9.6	10.1	F8	2	..	13393b	94	2951	51.2	-11 0	9.0	9.8	G5	1	..	18996b
45	2291	50.9	+ 3 24	9.9	10.4	F8	2	..	13393b	95	2980	51.2	-15 5	8.86	9.42	Go	3	..	41224b
46	2587	50.9	+ 0 26	8.9	9.0	A5	5	..	13393b	96	3051	51.2	-21 1	8.8	10.3	G5	2	..	13145b
47	8579	50.9	-25 3	9.60	9.3	Ao	3	..	13145b	97	2945	51.2	-21 22	9.2	10.3	Ko	2	2,2	13145b
48	6879	50.9	-32 53	7.51	8.1	G5	5	5,4	22915b	98	7747	51.2	-28 25	9.7	9.6	Go	1	..	15600b
49	6493	50.9	-33 13	7.51	8.2	G5	6	5,7	22915b	99	5562	51.2	-45 16	7.68	8.5	B9	6	..	39864b
50	5610	50.9	-40 18	8.4	8.6	F5	4	..	19157b	100	1525	51.2	-59 22	10.8	10.8	Ao	1	..	40105b

THE HENRY DRAPER CATALOGUE.

86100

9^h 51^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1118	51.2	-64 32	8.4	9.5	K2	4	..	40221b	51	8593	51.6	-24 36	8.0	8.7	K2	5	..	13145b
2	877	51.2	-73 0	9.2	10.3	K2	1	..	39946b	52	7539	51.6	-26 27	8.3	8.7	A2	6	..	13145b
3	1975	51.3	+43 39	8.7	9.7	Ko	1	..	38291i	53	7541	51.6	-26 35	9.4	10.2	Ao	5	..	13145b
4	1922	51.3	+33 27	8.3	9.3	Ko	1	..	38241i	54	7057	51.6	-28 2	8.9	9.6	A3	3	E	22915b
5	2185	51.3	+25 26	8.6	9.6	Ko	1	..	38642i	55	8035	51.6	-31 0	10.9	10.2	A2	1	..	22915b
6	2932	51.3	-16 0	9.2	9.3	A2	4	..	41224b	56	6507	51.6	-34 0	8.7	9.3	F5	2	..	13116b
7	2870	51.3	-19 29	8.8	10.0	Ma	3	..	13145b	57	6027	51.6	-36 41	8.5	9.3	G5	2	..	13116b
8	2764	51.3	-22 24	9.1	10.4	K5	1	..	13145b	58	3024	51.6	-53 55	8.9	9.5	Ko	2	..	38408b
9	6505	51.3	-34 6	9.4	10.8	Ko	1	..	22915b	59	2660	51.6	-55 9	9.8	9.8	Ao	2	..	38408b
10	5961	51.3	-39 58	7.74	8.1	Ao	7	..	19157b	60	2644	51.6	-56 37	8.3	10.1	K5	2	..	40105b
11	5616	51.3	-41 7	var.	var.	Nb	2	R.	40276b	61	2420	51.6	-57 15	8.3	8.3	Oc	4	..	40105b
12	4640	51.3	-50 21	9.0	8.7	Ao	4	..	39864b	62	1697	51.6	-58 48	9.1	9.0	B5	4	..	40105b
13	4639	51.3	-50 31	8.8	8.9	K2	2	..	39864b	63	1698	51.6	-59 1	9.6	10.8	K5	1	..	40105b
14	2933	51.3	-52 10	8.6	9.2	A5	3	..	38408b	64	1120	51.6	-66 51	8.3	8.7	F5	4	..	40221b
15	2861	51.3	-54 53	9.0	10.7	K2	1	..	38408b	65	1436	51.7	+52 3	8.1	8.7	Go	5	..	38638i
16	2634	51.3	-56 8	9.8	9.8	B9	2	0,1	40105b	66	1566	51.7	+45 53	6.50	7.50	Ko	6	..	38336i
17	2635	51.3	-56 42	9.0	9.3	B3	3	..	40105b	67	1977	51.7	+29 38	8.21	8.35	A5	4	R	37529i
18	2418	51.3	-57 57	6.72	6.8	B5	7	..	34089b	68	2186	51.7	+25 16	8.1	9.1	Ko	3	..	38642i
19	1693	51.3	-58 8	8.8	8.8	B8	2	..	40105b	69	2325	51.7	-1 25	9.0	9.1	A3	3	..	22970b
20	417	51.4	+74 39	8.82	9.60	G5	2	..	37714i	70	2324	51.7	-1 49	8.3	8.4	A2	6	..	22970b
21	1823	51.4	+28 2	8.9	9.9	Ko	1	..	37529i	71	2802	51.7	-8 22	8.5	9.3	G5	4	..	19137b
22	2128	51.4	+21 15	8.8	9.3	F8	4	..	37608i	72	2803	51.7	-8 46	8.6	9.6	Ko	4	..	19137b
23	2817	51.4	-3 22	8.5	8.9	F5	5	..	22970b	73	3031	51.7	-13 0	7.03	8.10	K2	8	..	18996b
24	6883	51.4	-32 7	8.7	10.0	K5	2	..	22915b	74	8596	51.7	-24 50	9.7	10.4	Ko	2	..	15600b
25	2862	51.4	-54 40	8.5	8.3	Ao	3	..	38797b	75	8037	51.7	-30 50	9.4	9.9	Ko	1	..	22915b
26	1694	51.4	-58 47	9.1	10.1	F2	1	..	40105b	76	6030	51.7	-38 26	9.8	10.1	Ko	1	..	40276b
27	663	51.4	-73 36	8.2	9.3	K2	2	..	21453b	77	5759	51.7	-42 31	9.1	9.5	G5	1	..	19157b
28	648	51.4	-74 25	9.5	10.5	Ko	1	..	21453b	78	5758	51.7	-42 54	9.2	8.9	A2	5	..	19157b
29	1274	51.5	+59 26	6.82	7.89	K2	6	..	38224i	79	6005	51.7	-44 22	8.6	9.3	Ko	2	..	19157b
30	2084	51.5	+35 37	8.6	8.7	A2	2	..	38241i	80	2422	51.7	-57 51	9.3	10.3	Ko	1	..	40105b
31	1975	51.5	+29 2	7.42	8.42	Ko	4	0,3	37529i	81	1700	51.7	-58 13	9.0	9.4	Fo	2	..	40105b
32	2156	51.5	+24 29	8.7	9.5	G5	4	..	38642i	82	1699	51.7	-58 35	8.7	8.7	Fo	5	..	40105b
33	2399	51.5	+20 14	7.70	8.26	Go	5	..	37608i	83	1356	51.7	-62 59	8.9	8.9	B9	5	..	40221b
34	2266	51.5	+4 31	8.1	9.1	Ko	4	..	13393b	84	1120	51.7	-64 50	8.6	9.8	K5	1	..	40221b
35	2588	51.5	+0 0	8.3	9.5	K5	6	..	13393b	85	626	51.7	-76 7	9.6	9.6	Ao	2	..	21453b
36	2801	51.5	-8 45	9.5	10.0	F8	1	..	19137b	86	644	51.8	+65 48	8.6	9.1	F8	4	E	37517i
37	2871	51.5	-19 15	8.0	9.2	Ko	4	..	13145b	87	1223	51.8	+60 34	9.5	10.3	G5	1	..	38224i
38	8590	51.5	-24 8	9.9	9.7	F5	1	3,1	15600b	88	2284	51.8	+19 46	8.00	9.00	Ko	4	0,3	37608i
39	6025	51.5	-36 25	8.7	9.6	Ko	1	..	13116b	89	2966	51.8	-9 53	8.5	9.5	Ko	3	..	19137b
40	1695	51.5	-58 16	9.1	9.9	Ko	2	..	40105b	90	2936	51.8	-15 25	9.7	10.9	K5	1	..	41224b
41	1119	51.5	-64 12	9.8	9.8	Ao	2	..	40221b	91	3013	51.8	-17 45	9.5	10.0	F8	1	..	41224b
42	155	51.5	-87 31	9.2	10.3	K2	2	..	22578b	92	7613	51.8	-25 37	9.7	9.7	A5	1	..	13145b
43	1227	51.6	+58 28	9.6	9.9	F2	1	..	38224i	93	8043	51.8	-30 37	7.06	7.3	Ao	8	..	22915b
44	1822	51.6	+48 42	7.8	8.6	G5	4	..	38336i	94	6511	51.8	-33 45	9.4	10.2	Ao	2	..	22915b
45	1726	51.6	+47 26	8.3	8.8	F8	2	..	38336i	95	6032	51.8	-39 5	6.95	8.1	Ko	7	0,8	19157b
46	2033	51.6	+41 32	5.19	5.61	F5	10	..	38241i	96	5456	51.8	-41 47	9.1	9.2	Ao	3	..	19157b
47	2269	51.6	+4 43	6.80	7.22	F5	10	..	13393b	97	5760	51.8	-42 43	8.3	8.0	A3	8	..	19157b
48	2268	51.6	+4 26	8.5	9.6	K2	3	..	13393b	98	5370	51.8	-47 54	10.5	10.1	A2	1	..	39864b
49	2293	51.6	+3 23	9.6	10.2	Go	2	..	13393b	99	2646	51.8	-56 54	6.82	6.5	B9	7	..	34089b
50	2268	51.6	+1 49	10.2	10.8	G	1	..	13393b	100	2426	51.8	-57 27	9.8	11.2	Ma	1	..	40105b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

86200

9^h 51^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2424	51.8	-58 0	8.9	8.9	A2	5	..	40105b	51	2431	52.1	-57 31	9.8	9.8	B9	2	..	40105b
2	2086	51.9	+35 35	7.43	8.61	K5	3	..	38241i	52	1702	52.1	-59 3	10.3	10.6	Fo	1	..	40105b
3	2270	51.9	+3 49	8.3	8.8	F8	6	..	13393b	53	1530	52.1	-59 44	10.1	10.1	Ao	2	..	40105b
4	2269	51.9	+2 14	9.6	10.1	F8	1	..	13393b	54	1358	52.1	-62 47	8.7	8.7	B9	5	..	40221b
5	2945	51.9	-5 19	8.40	8.82	F5	7	..	19137b	55	1165	52.1	-67 15	8.4	9.2	G5	3	..	40074b
6	2923	51.9	-16 59	8.7	9.8	K2	2	..	41224b	56	1129	52.1	-69 9	8.1	9.5	Ma	2	..	40074b
7	3052	51.9	-20 47	8.2	9.5	K2	2	..	13145b	57	419	52.2	+74 42	9.22	9.28	A2	2	..	37714i
8	7614	51.9	-25 19	9.2	9.6	Fo	2	..	13145b	58	522	52.2	+71 13	8.9	9.3	F5	2	..	37714i
9	7790	51.9	-31 14	9.7	10.0	K5	1	..	22915b	59	1438	52.2	+52 33	8.1	8.2	A2	6	..	38638i
10	7792	51.9	-31 37	9.7	10.0	Go	1	..	22915b	60	2189	52.2	+25 5	8.5	9.5	Ko	1	..	38642i
11	5626	51.9	-40 21	6.34	8.3	Ma	6	..	19157b	61	2407	52.2	+20 39	8.6	9.1	F8	4	..	37571i
12	3032	51.9	-53 34	9.5	9.5	Ao	2	..	38408b	62	2271	52.2	+2 35	8.4	8.5	A5	5	..	13393b
13	2873	51.9	-55 2	9.53	9.5	A3	3	..	38408b	63	2819	52.2	-3 45	8.7	9.5	G5	3	..	22970b
14	1528	51.9	-59 21	9.1	8.7	B5	3	..	40105b	64	2938	52.2	-15 25	8.0	8.5	F8	8	..	41224b
15	1529	51.9	-60 10	7.84	8.7	Ko	5	..	40221b	65	3015	52.2	-18 11	9.2	10.2	Ko	1	..	41224b
16	1128	51.9	-69 25	6.99	7.1	B8	8	..	22988b	66	7622	52.2	-26 4	6.23	6.6	A2	6	..	7734b
17	1275	52.0	+59 14	8.1	9.1	Ko	2	..	38224i	67	6895	52.2	-32 57	5.86	7.3	Ko	..	O, R	56,127
18	1356	52.0	+55 33	9.3	10.3	Ko	1	..	38638i	68	2658	52.2	-56 28	8.4	9.5	Ko	3	..	40105b
19	2069	52.0	+42 4	8.1	9.1	Ko	1	..	38291i	69	2434	52.2	-57 29	8.9	9.8	Ko	2	..	40105b
20	2295	52.0	+2 56	10.2	10.8	Go	2	..	13393b	70	1703	52.2	-58 17	9.4	9.4	B8	5	..	40105b
21	2270	52.0	+2 17	9.2	10.0	G5	2	..	13393b	71	1531	52.2	-59 40	10.5	10.5	Ao	1	..	40105b
22	2272	52.0	-0 53	8.9	9.3	F5	4	..	22970b	72	1360	52.2	-63 4	9.5	9.5	A	2	..	40221b
23	2765	52.0	-12 13	8.5	9.0	F8	5	..	18996b	73	1239	52.3	+57 24	8.8	8.9	A5	3	..	38638i
24	2988	52.0	-13 55	8.4	9.6	K5	1	..	18996b	74	1702	52.3	+50 37	6.59	6.59	Ao	..	O, R	56,87
25	3053	52.0	-20 23	9.23	10.0	Ko	3	5,2	41224b	75	2034	52.3	+41 13	7.8	8.8	Ko	3	..	38241i
26	8866	52.0	-23 37	7.9	8.2	Go	6	..	13145b	76	2286	52.3	+18 52	10.6	11.2	G	2	..	37608i
27	7933	52.0	-29 53	8.7	9.4	F5	3	..	22915b	77	2259	52.3	+5 35	8.4	8.7	Fo	6	..	13393b
28	8046	52.0	-30 24	9.4	9.6	Ko	2	..	22915b	78	..	52.3	+2 28	..	..	A2	2	..	13393b
29	7795	52.0	-31 46	8.1	9.9	Ma	3	..	22915b	79	2590	52.3	+0 21	8.1	9.2	K2	5	..	13393b
30	6171	52.0	-38 2	7.73	9.1	K5	2	..	13116b	80	2764	52.3	-4 42	8.6	9.0	F5	7	..	19137b
31	5753	52.0	-43 9	9.1	9.0	A3	4	..	19157b	81	3040	52.3	-6 54	9.1	10.3	K5	1	..	19137b
32	4810	52.0	-49 13	10.0	9.3	F2	1	..	39864b	82	2924	52.3	-17 9	8.7	9.9	K5	2	..	41224b
33	4321	52.0	-51 50	8.3	8.1	A3	5	..	38797b	83	7767	52.3	-28 47	7.6	8.1	Ao	8	..	22915b
34	3035	52.0	-53 51	10.0	10.1	A2	2	..	38408b	84	6523	52.3	-33 16	8.8	9.3	Ko	4	..	22915b
35	2666	52.0	-55 49	8.4	8.0	Ao	5	..	38797b	85	5145	52.3	-48 35	9.4	9.2	F8	3	..	39864b
36	1276	52.1	+59 39	8.11	8.39	Fo	3	..	38224i	86	4325	52.3	-51 49	8.9	8.9	Ao	4	..	38797b
37	2295	52.1	+39 25	8.2	8.6	F5	5	..	38241i	87	4327	52.3	-52 6	10.5	9.6	Fo	1	..	38408b
38	2156	52.1	+16 56	7.38	8.38	Ko	5	0,4	37608i	88	2955	52.3	-52 30	7.9	8.0	B5	5	..	38797b
39	2385	52.1	+1 42	8.5	9.5	Ko	4	..	13393b	89	1707	52.3	-58 16	7.61	7.9	Ao	3	1,9	34089b
40	2949	52.1	-5 59	9.5	10.0	F8	1	..	19137b	90	1532	52.3	-59 28	9.7	9.7	Ao	3	..	40105b
41	2807	52.1	-8 54	8.5	8.6	A2	5	..	19137b	91	1122	52.3	-66 42	9.5	9.5	A	1	E	40221b
42	2805	52.1	-9 7	7.8	8.6	G5	6	..	19137b	92	1001	52.3	-68 33	8.9	10.0	K2	1	..	40074b
43	3014	52.1	-17 46	9.5	9.8	F2	1	..	41224b	93	1560	52.4	+51 8	9.3	10.3	Ko	1	..	38638i
44	2770	52.1	-23 13	8.6	9.4	A2	4	..	13145b	94	1923	52.4	+33 30	8.7	9.5	G5	1	..	38673i
45	8603	52.1	-24 51	8.7	8.5	F8	4	..	13145b	95	2157	52.4	+24 16	9.5	10.3	G5	1	..	38642i
46	7936	52.1	-29 28	8.2	9.4	Ko	2	..	22915b	96	2272	52.4	+2 7	8.5	9.5	Ko	2	..	13393b
47	7937	52.1	-29 39	7.9	9.9	Ko	2	..	22915b	97	2820	52.4	-3 27	9.2	9.5	F2	4	..	22970b
48	8049	52.1	-30 58	9.4	8.7	B3	3	..	22915b	98	2967	52.4	-9 25	8.8	9.6	G5	3	..	19137b
49	5628	52.1	-40 18	9.4	9.6	Ko	1	..	19157b	99	2939	52.4	-15 25	9.2	10.2	Ko	2	..	41224b
50	2656	52.1	-56 57	8.5	9.8	Ko	2	..	40105b	100	2926	52.4	-16 17	8.6	8.9	F2	5	..	41224b

THE HENRY DRAPER CATALOGUE.

86300

9^h 52^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7551	52.4	-27 0	6.32	7.1	A2	5	..	7734b	51	5149	52.7	-48 21	9.4	9.0	Fo	4	..	39864b
2	7069	52.4	-28 3	7.7	9.0	A3	5	..	22915b	52	4662	52.7	-50 52	6.47	7.0	B3	..	0.8	56,127
3	6018	52.4	-44 47	7.84	8.4	Ko	5	..	19157b	53	3052	52.7	-53 9	6.84	6.8	B8	8	..	38797b
4	5378	52.4	-47 14	9.2	9.3	G5	1	..	39864b	54	2669	52.7	-56 37	9.2	9.8	Go	1	..	40105b
5	5376	52.4	-47 35	9.4	8.8	A2	3	..	39864b	55	2668	52.7	-57 3	8.9	10.4	Ma	2	..	40105b
6	5377	52.4	-47 42	10.0	9.3	Ao	2	..	39864b	56	477	52.7	-78 33	9.5	10.3	G5	1	..	21453b
7	1533	52.4	-59 49	9.7	9.7	B9	2	..	40105b	57	1938	52.8	+43 56	8.1	8.9	G5	3	..	38291i
8	1121	52.4	-64 36	8.3	9.5	K5	3	..	40221b	58	1824	52.8	+28 15	6.42	6.70	Fo	6	..	38203i
9	1375	52.5	+53 45	8.5	9.0	F8	4	..	38638i	59	2141	52.8	+15 42	7.6	8.4	G5	4	0.5	37571i
10	1439	52.5	+52 21	9.0	9.4	F5	2	..	38638i	60	2183	52.8	+12 55	5.18	5.18	Ao	..	2, R	56,87
11	2075	52.5	+31 0	8.1	9.1	Ko	2	..	37529i	61	2272	52.8	+4 15	10.6	11.1	F8	1	..	13393b
12	2163	52.5	+23 9	7.86	7.92	A2	5	..	37571i	62	7561	52.8	-26 50	8.3	8.7	F8	6	E	13145b
13	2133	52.5	+21 27	8.7	9.1	F5	5	..	37571i	63	7775	52.8	-28 34	9.5	9.9	K2	1	..	15600b
14	2271	52.5	+4 44	9.31	9.73	F5	3	..	13393b	64	6906	52.8	-32 58	10.0	10.0	A2	2	..	22915b
15	3041	52.5	-7 3	9.7	10.9	K5	1	..	19137b	65	2681	52.8	-55 26	8.5	8.6	A3	3	..	38797b
16	2931	52.5	-7 42	8.7	9.8	K2	3	..	19137b	66	2682	52.8	-55 56	10.1	10.1	Ao	1	..	40105b
17	5588	52.5	-45 55	8.3	9.0	Ko	3	..	39864b	67	2673	52.8	-57 1	9.0	9.0	F8	4	..	40105b
18	3045	52.5	-53 35	8.1	9.0	K2	3	..	38797b	68	2147	52.9	+22 46	8.3	9.1	G5	4	..	37571i
19	1709	52.5	-58 38	7.10	7.7	B8	5	..	34089b	69	2269	52.9	+8 48	6.27	7.27	Ko	6	0.7	37610i
20	457	52.5	-79 35	6.54	6.7	Ao	9	..	13465b	70	2957	52.9	-10 21	9.11	9.11	Ao	3	..	18996b
21	225	52.6	+84 24	6.48	7.48	Ko	5	5.5	37546i	71	2942	52.9	-16 3	6.66	6.94	Fo	9	..	41224b
22	399	52.6	+75 14	7.09	7.87	G5	8	..	37714i	72	7564	52.9	-26 8	9.2	9.1	Go	4	..	15600b
23	1979	52.6	+29 4	8.8	9.8	Ko	1	..	37529i	73	7565	52.9	-26 10	9.9	9.7	F8	1	..	15600b
24	2992	52.6	-13 52	9.2	9.6	F5	2	..	18996b	74	7563	52.9	-26 23	9.2	9.7	F8	1	..	15600b
25	2984	52.6	-15 6	9.56	9.56	A	2	..	41224b	75	7562	52.9	-26 43	8.1	8.7	F2	6	E	13145b
26	2928	52.6	-16 58	9.7	10.3	Go	2	..	41224b	76	6909	52.9	-32 23	7.08	7.6	A2	8	0.9	13116b
27	2927	52.6	-17 6	9.9	10.0	A5	1	..	41224b	77	6292	52.9	-34 36	8.4	8.1	A2	4	..	13116b
28	2951	52.6	-21 43	9.7	10.3	F8	1	..	13145b	78	1242	53.0	+57 18	5.71	6.89	K5	7	..	38638i
29	6035	52.6	-37 2	8.7	9.1	A2	3	..	13116b	79	2953	53.0	-5 59	9.2	10.3	K2	1	..	19137b
30	5631	52.6	-40 29	9.6	8.9	Ao	3	..	19157b	80	2987	53.0	-15 3	9.1	9.4	Fo	3	..	41224b
31	5645	52.6	-46 35	8.3	8.7	A2	6	..	39864b	81	2775	53.0	-22 26	9.7	10.3	G5	2	..	13145b
32	5381	52.6	-47 17	7.1	7.8	G5	6	..	39864b	82	8060	53.0	-30 41	9.7	8.5	Ao	4	..	22915b
33	5150	52.6	-48 49	10.5	9.6	A	1	..	39864b	83	6049	53.0	-38 29	10.9	10.1	A	1	..	40276b
34	3050	52.6	-53 57	10.3	10.3	Ao	1	..	38408b	84	5387	53.0	-47 12	7.5	8.2	Ko	4	..	39864b
35	1240	52.7	+56 56	7.34	8.34	Ko	3	..	38638i	85	4334	53.0	-51 21	8.2	8.0	Ao	7	..	38797b
36	1357	52.7	+55 17	9.0	9.4	F5	2	..	38638i	86	2967	53.0	-52 33	8.9	9.6	Ko	2	..	38408b
37	1561	52.7	+51 28	8.7	9.3	Go	3	..	38638i	87	2902	53.0	-54 51	10.3	10.3	Ao	1	..	38408b
38	1940	52.7	+30 1	8.2	9.2	Ko	2	0.1	37529i	88	1002	53.0	-68 43	6.82	6.9	B9	9	..	22988b
39	1980	52.7	+28 58	9.1	10.2	K2	1	..	37529i	89	561	53.0	-77 11	8.9	10.0	K2	2	..	21453b
40	2081	52.7	+10 10	8.5	8.9	F5	2	..	37610i	90	481	53.1	+72 54	8.3	8.7	F5	3	..	37714i
41	2329	52.7	-1 28	6.72	7.50	G5	9	..	22970b	91	3059	53.1	-20 42	7.82	8.6	G5	4	..	13145b
42	2330	52.7	-1 29	8.7	9.7	Ko	3	..	22970b	92	7566	53.1	-26 53	9.9	9.6	F8	3	..	15600b
43	2968	52.7	-9 16	9.1	10.2	K2	3	..	19137b	93	7954	53.1	-29 13	9.2	10.7	K2	1	..	15600b
44	7774	52.7	-28 33	10.4	9.6	F8	2	..	15600b	94	7953	53.1	-29 58	9.4	10.8	Ko	1	..	22915b
45	6903	52.7	-32 42	9.4	9.4	F8	5	..	22915b	95	8062	53.1	-30 58	9.7	10.0	Ko	1	..	22915b
46	6527	52.7	-33 16	10.0	10.5	A2	3	..	22915b	96	6296	53.1	-34 13	9.3	9.4	Ao	4	..	22915b
47	6289	52.7	-34 21	7.45	8.4	F5	6	..	13116b	97	6295	53.1	-35 3	9.59	9.7	Ko	2	..	22915b
48	6031	52.7	-35 13	9.29	9.4	G5	4	..	22915b	98	6052	53.1	-38 34	10.0	9.8	Ao	3	..	40276b
49	5775	52.7	-42 7	9.1	9.6	G5	2	..	19157b	99	6053	53.1	-38 49	10.7	10.1	Ao	1	..	40276b
50	5385	52.7	-47 56	7.9	9.6	K5	2	..	39864b	100	6028	53.1	-44 54	9.6	9.9	Ao	2	..	19157b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

86400

9^h 53^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5158	53.1	-48 36	9.8	9.6	Ko	1	..	39864b	51	6039	53.5	-35 11	9.49	9.7	Ko	2	..	22915b
2	2970	53.1	-52 50	9.0	9.5	F8	2	..	38408b	52	5394	53.5	-47 36	10.2	9.6	Fo	1	..	39864b
3	3068	53.1	-53 57	8.2	7.7	B9	7	..	38797b	53	5168	53.5	-49 5	7.2	8.1	Go	6	..	39864b
4	1003	53.1	-68 20	7.7	8.3	Go	5	..	40074b	54	1714	53.5	-58 20	9.04	8.8	Fo	4	..	40105b
5	649	53.1	-74 54	7.8	7.8	B9	8	..	21453b	55	564	53.5	-77 48	9.5	10.5	K	1	..	21453b
6	1082	53.2	+29 38	10.2	11.2	Ko	2	..	37529i	56	322	53.6	+81 10	10.3	10.8	F8	1	R	37465i
7	2207	53.2	+2 50	9.0	10.0	Ko	2	..	13393b	57	323	53.6	+81 10	10.3	10.8	Fo	7	..	37706i
8	2593	53.2	+0 3	9.4	9.5	A5	3	..	13393b	58	550	53.6	+69 12	7.8	8.1	Fo	7	..	37706i
9	6917	53.2	-32 51	10.0	10.2	Ko	1	..	22915b	59	2037	53.6	+41 11	8.9	8.9	A	1	..	38241i
10	5661	53.2	-46 12	7.9	9.3	K5	2	..	39864b	60	1826	53.6	+27 59	8.0	8.6	Go	3	..	38203i
11	1366	53.2	-62 38	9.2	9.3	A2	3	..	40221b	61	3019	53.6	-17 35	9.5	10.7	K5	1	R	41224b
12	1365	53.2	-63 6	9.5	9.5	Ao	2	..	40221b	62	8883	53.6	-23 22	9.1	10.3	Ko	1	..	13145b
13	563	53.2	-77 20	10.0	10.0	A	1	..	21453b	63	8622	53.6	-24 39	6.66	7.7	A2	5	2,10	7734b
14	1825	53.3	+48 25	8.1	8.5	F5	3	..	38291i	64	7640	53.6	-25 13	10.2	10.4	Ao	1	..	15600b
15	2035	53.3	+41 4	8.7	9.7	Ko	1	..	38241i	65	7961	53.6	-29 8	8.5	9.4	Ko	2	..	22915b
16	2090	53.3	+38 15	9.2	9.6	F5	1	..	38241i	66	2980	53.6	-52 10	6.15	7.0	B3	10	..	38797b
17	2078	53.3	+30 53	8.1	9.1	Ko	3	..	37529i	67	2915	53.6	-54 43	9.3	10.3	Ko	2	..	38408b
18	2190	53.3	+24 53	9.01	9.07	A2	3	..	38642i	68	2706	53.6	-55 51	9.4	9.7	Fo	2	..	40105b
19	2134	53.3	+11 26	7.34	7.68	F2	6	..	37610i	69	2454	53.6	-58 2	9.7	9.7	Ao	6	..	40105b
20	2054	53.3	-6 8	9.2	10.2	Ko	1	..	19137b	70	1715	53.6	-58 28	8.9	10.5	K5	1	..	40105b
21	3039	53.3	-12 39	7.48	8.66	K5	6	..	18996b	71	1128	53.6	-64 10	9.1	9.5	F5	3	..	40221b
22	7780	53.3	-28 34	9.7	9.3	F5	3	..	22915b	72	885	53.6	-72 5	9.0	9.1	A5	2	..	22988b
23	7956	53.3	-29 59	10.2	10.5	F8	1	..	22915b	73	1094	53.7	+62 5	8.5	9.5	Ko	3	E	37725i
24	5479	53.3	-41 58	10.0	8.9	B8	4	..	19157b	74	2030	53.7	+25 58	8.9	9.9	Ko	1	..	38642i
25	5786	53.3	-42 50	9.4	9.2	F8	3	..	19157b	75	2139	53.7	+20 53	9.5	10.0	F8	2	..	37571i
26	5162	53.3	-48 42	9.8	9.2	F2	2	..	39864b	76	2263	53.7	+5 16	7.31	8.66	Ma	6	..	13393b
27	2909	53.3	-54 36	7.9	7.6	A3	6	..	38797b	77	2386	53.7	+0 49	8.84	9.84	Ko	4	..	13393b
28	2447	53.3	-57 37	10.3	10.3	B9	3	..	40105b	78	2824	53.7	-3 42	8.2	9.3	K2	4	..	22970b
29	1713	53.3	-58 27	9.1	9.0	Ao	3	..	40105b	79	2934	53.7	-7 47	8.6	9.1	F8	4	..	19137b
30	1536	53.3	-59 17	9.2	9.3	A2	3	..	40105b	80	3041	53.7	-12 49	9.2	10.2	K	1	..	18996b
31	950	53.3	-70 28	8.5	8.8	Fo	2	..	40074b	81	2996	53.7	-13 28	7.45	8.63	K5	5	..	18996b
32	665	53.3	-73 24	9.2	9.3	A2	4	..	21453b	82	2877	53.7	-19 49	9.2	10.0	F8	3	0,2-	41224b
33	645	53.4	+66 34	9.1	9.9	G5	1	..	38654i	83	3061	53.7	-21 5	9.2	9.7	Ko	1	0,1	13145b
34	1959	53.4	+32 16	9.5	9.8	Fo	2	..	37529i	84	7787	53.7	-28 40	9.5	10.4	K2	1	..	15600b
35	2136	53.4	+10 56	7.34	8.34	Ko	3	..	37610i	85	6302	53.7	-34 50	9.3	9.9	K2	2	..	22915b
36	2298	53.4	+2 59	9.9	11.1	K5	1	..	13393b	86	6186	53.7	-37 41	9.4	9.1	A2	3	..	40276b
37	7784	53.4	-28 16	8.9	9.6	K2	3	0,2	15600b	87	6058	53.7	-39 6	8.7	9.8	K5	2	..	40276b
38	5606	53.4	-45 9	8.68	8.4	B3	5	..	19157b	88	5779	53.7	-43 13	9.1	9.0	F5	3	..	19157b
39	4831	53.4	-49 24	7.5	7.6	B8	8	..	39864b	89	3083	53.7	-53 33	10.6	10.6	Ao	1	..	38408b
40	3075	53.4	-54 6	3.70	3.58	B5	..	R	28,204	90	2704	53.7	-55 34	8.4	8.6	B8	4	..	40105b
41	2451	53.4	-57 11	7.4	8.0	B9	5	R	34089b	91	2457	53.7	-57 16	10.6	10.6	Ao	1	..	40105b
42	2450	53.4	-57 30	10.1	10.7	G	1	..	40105b	92	566	53.7	-77 9	8.8	9.8	Ko	1	..	21453b
43	951	53.4	-70 25	10.0	10.0	A	1	..	40074b	93	565	53.7	-77 23	9.8	9.8	Ao	2	..	21453b
44	2237	53.5	+6 35	7.9	8.9	Ko	7	..	9463b	94	1563	53.8	+51 43	8.5	9.7	K5	2	..	38638i
45	3022	53.5	-3 10	8.4	9.2	G5	2	..	22970b	95	2164	53.8	+23 45	8.3	9.3	Ko	3	..	37608i
46	3045	53.5	-6 43	8.8	9.8	Ko	3	..	19137b	96	2274	53.8	+4 16	9.9	10.4	F8	2	..	13393b
47	2931	53.5	-16 30	9.5	10.5	Ko	1	..	41224b	97	2300	53.8	+2 53	8.9	9.4	F8	4	..	13393b
48	7814	53.5	-31 19	8.7	9.0	F5	3	..	22915b	98	2387	53.8	+1 29	9.2	9.7	F8	3	..	13393b
49	6921	53.5	-32 47	9.3	8.7	A5	4	..	22915b	99	2388	53.8	+0 58	8.9	9.7	G5	4	..	13393b
50	6539	53.5	-33 44	8.5	9.0	Ao	2	..	13116b	100	2961	53.8	-10 36	8.4	8.7	Fo	3	..	18996b

THE HENRY DRAPER CATALOGUE.

86500

9^h 53^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2780	53.8	-22 40	9.5	9.7	A	1	..	13145b	51	6046	54.1	-35 34	8.7	9.1	G5	2	..	13116b
2	7789	53.8	-28 27	9.2	9.3	F8	3	..	22915b	52	5653	54.1	-40 17	9.4	10.5	Mc	2	..	40276b
3	5998	53.8	-40 6	9.6	9.5	F5	2	..	40276b	53	5490	54.1	-41 43	8.0	9.2	K2	3	..	19157b
4	5667	53.8	-47 5	9.8	9.0	Ao	4	..	39864b	54	2712	54.1	-55 15	9.78	10.0	A2	3	..	38408b
5	5170	53.8	-48 54	10.0	9.2	Fo	2	..	39864b	55	1545	54.1	-59 25	9.5	9.5	B9	4	..	40105b
6	2989	53.8	-52 57	9.1	9.3	A2	4	0,2	38408b	56	1540	54.1	-60 50	9.3	9.3	Ao	3	..	40221b
7	3091	53.8	-53 23	10.3	10.3	Ao	2	..	38408b	57	1370	54.1	-62 55	7.6	7.6	B9p	5	1,4 R	13761b
8	1538	53.8	-59 11	9.9	10.2	Fo	1	..	40105b	58	1008	54.1	-68 14	8.8	8.8	Ao	4	..	40074b
9	1243	53.9	+57 27	9.1	9.5	F5	1	..	38638i	59	524	54.2	+71 15	8.1	8.9	G5	4	..	37706i
10	1564	53.9	+51 5	8.8	9.9	K2	1	..	38638i	60	1378	54.2	+53 36	7.55	8.05	F8	7	..	38638i
11	1980	53.9	+42 48	7.54	8.61	K2	4	..	38291i	61	1941	54.2	+44 29	8.9	9.0	A3	1	..	38291i
12	1961	53.9	+31 57	8.5	9.5	Ko	3	..	37529i	62	2275	54.2	+8 54	9.2	10.0	G5	1	..	13402b
13	1946	53.9	+30 8	5.86	6.86	Ko	7	..	38203i	63	2301	54.2	+3 26	9.2	9.2	Ao	6	..	13393b
14	1983	53.9	+29 26	9.1	9.2	A2	2	..	37529i	64	7791	54.2	-28 49	7.30	7.7	Ko	8	..	22915b
15	2165	53.9	+23 9	9.5	10.5	Ko	1	..	38642i	65	6192	54.2	-37 42	9.0	9.7	K5	2	..	39922b
16	2148	53.9	+21 49	6.61	6.67	A2	8	..	37571i	66	6006	54.2	-39 42	9.6	8.9	Ao	4	1,4	19157b
17	2296	53.9	+7 54	8.7	8.8	A3	4	..	9463b	67	6009	54.2	-39 51	9.4	10.1	K2	1	..	40276b
18	3023	53.9	-3 5	8.6	9.0	F5	3	..	22970b	68	5404	54.2	-47 10	10.5	9.6	A5	2	..	39864b
19	2811	53.9	-8 19	9.7	10.0	F2	1	..	19137b	69	4347	54.2	-51 48	9.1	10.9	A3	1	..	38408b
20	5794	53.9	-42 22	9.1	8.9	Ao	5	..	19157b	70	2993	54.2	-52 20	9.0	9.2	G5	1	..	38797b
21	5783	53.9	-43 48	9.0	9.9	K5	1	..	19157b	71	2931	54.2	-54 47	9.9	10.0	A2	3	..	38408b
22	5615	53.9	-45 27	8.4	9.3	K5	1	..	19157b	72	2694	54.2	-56 23	7.6	8.5	A2	6	..	38797b
23	5399	53.9	-47 56	6.42	5.7	B5	10	..	39864b	73	1541	54.2	-60 34	9.5	9.5	Ao	2	..	40105b
24	5172	53.9	-49 4	10.0	9.5	Ao	3	..	39864b	74	551	54.3	+69 30	8.24	9.24	Ko	3	..	37706i
25	4342	53.9	-51 26	8.5	8.9	Ko	3	..	38797b	75	2128	54.3	+12 4	9.2	9.6	F5	2	..	37724i
26	2687	53.9	-57 6	9.4	10.0	Go	3	..	40105b	76	2275	54.3	+4 20	9.2	9.6	F5	3	..	13393b
27	1719	53.9	-58 36	9.5	10.5	Ko	2	..	40105b	77	2273	54.3	+2 30	8.9	9.5	Go	2	..	13393b
28	1540	53.9	-59 29	10.1	10.1	Ao	1	..	40105b	78	2332	54.3	-1 28	9.2	10.4	K5	1	..	22970b
29	1542	53.9	-59 33	9.1	9.9	Ko	2	..	40105b	79	3028	54.3	-2 36	7.44	7.72	Fo	8	..	22970b
30	1007	53.9	-68 21	8.5	8.5	B9	4	..	40074b	80	2785	54.3	-22 28	10.1	10.3	F2	1	..	13145b
31	1133	53.9	-69 32	8.8	8.8	Ao	2	..	40074b	81	7579	54.3	-26 35	10.2	9.7	Go	2	..	15600b
32	952	53.9	-70 38	8.4	8.8	F5	2	..	22988b	82	6551	54.3	-33 40	10.2	10.5	Ao	1	..	22915b
33	1377	54.0	+53 33	8.9	9.4	F8	2	..	38638i	83	5795	54.3	-43 20	10.5	9.9	A5	2	..	19157b
34	2031	54.0	+26 38	8.5	9.5	Ko	2	..	38642i	84	5673	54.3	-46 33	8.9	8.7	B9	6	..	39864b
35	3024	54.0	-2 32	7.40	7.74	F2	8	..	22970b	85	2937	54.3	-54 26	9.4	9.4	B9	3	..	38408b
36	2825	54.0	-3 59	9.2	10.4	K5	1	..	22970b	86	667	54.3	-73 9	8.8	9.6	G5	3	0,2	39946b
37	2812	54.0	-8 49	9.7	10.2	F8	1	..	19137b	87	485	54.3	-78 13	9.0	9.4	F5	6	..	21453b
38	2999	54.0	-13 40	7.8	7.9	A2	8	..	18996b	88	487	54.3	-79 5	9.5	10.0	F8	4	..	21453b
39	2957	54.0	-21 51	7.8	9.1	Ko	3	..	13145b	89	1359	54.4	+55 35	8.7	9.0	F2	1	..	38638i
40	8889	54.0	-23 51	7.89	8.2	F5	5	..	13145b	90	2191	54.4	+25 2	7.91	8.69	G5	5	..	38642i
41	7969	54.0	-29 44	9.2	9.9	Ko	1	..	22915b	91	2771	54.4	-4 56	9.1	10.3	K5	1	..	22970b
42	6003	54.0	-39 56	10.0	9.8	A3	1	..	40276b	92	3045	54.4	-12 17	7.68	7.68	Ao	7	..	18996b
43	6044	54.0	-44 26	9.1	9.3	F8	3	..	19157b	93	2949	54.4	-15 32	7.25	7.25	Ao	9	..	41224b
44	3094	54.0	-53 54	8.9	9.1	B9	3	..	38797b	94	3065	54.4	-21 12	9.2	9.7	Ko	2	5,2	40313b
45	1369	54.0	-61 14	9.5	9.9	F5	2	..	40221b	95	2958	54.4	-21 43	8.2	9.1	G5	4	..	13145b
46	1947	54.1	+29 47	9.01	9.79	G5	1	..	37529i	96	8895	54.4	-23 15	9.7	10.4	Ko	1	..	13145b
47	2970	54.1	-9 44	9.5	10.0	F8	3	..	19137b	97	7580	54.4	-26 46	10.2	9.6	Ao	2	..	15600b
48	3021	54.1	-17 27	9.5	9.9	F5	1	..	41224b	98	6554	54.4	-33 11	8.2	8.7	F2	6	2,4	40082b
49	3022	54.1	-18 0	9.7	10.7	Ko	1	..	41224b	99	5676	54.4	-46 56	9.1	9.6	G5	1	..	39864b
50	6311	54.1	-35 1	10.0	9.3	Ao	4	..	22915b	100	4692	54.4	-50 34	9.1	8.7	Fo	3	..	39864b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2996	54.4	-52 25	8.2	8.3	B8	4	..	38797b	51	8083	54.8	-30 13	8.45	7.8	B8	5	..	22915b
2	3104	54.4	-53 18	9.7	9.7	B8	3	..	38408b	52	6942	54.8	-33 2	8.7	8.7	Go	5	0.5 R	40082b
3	2720	54.4	-55 19	9.9	10.0	A3	2	..	38408b	53	5502	54.8	-41 53	10.9	9.8	A2	2	..	19157b
4	2723	54.4	-56 3	8.9	8.2	A2	5	0.4	40105b	54	2951	54.8	-54 30	9.0	9.4	F8	4	..	38408b
5	2471	54.4	-57 30	10.0	10.0	B9	3	..	40105b	55	1739	54.8	-58 23	var.	var.	Mb	6	R	40105b
6	953	54.4	-70 55	6.42	6.1	Bo	10	..	22988b	56	1738	54.8	-58 36	8.67	9.2	B8	6	..	40105b
7	1442	54.5	+52 24	8.3	8.8	F8	3	..	38638i	57	1557	54.8	-59 29	9.8	9.8	B8	2	..	40105b
8	2140	54.5	+21 44	var.	var.	Md	..	R	56,201	58	1380	54.8	-61 12	9.1	9.2	B9	4	..	40221b
9	2055	54.5	+16 39	8.5	9.1	G	3	..	37571i	59	1011	54.8	-68 37	6.34	6.1	B5	10	..	22988b
10	2267	54.5	+5 42	8.0	8.4	F5	8	..	13393b	60	363	54.8	-82 26	8.29	8.6	Fo	5	5.5	20869b
11	2276	54.5	+3 52	6.63	6.77	A5	9	..	13393b	61	1421	54.9	+56 6	8.3	9.1	G5	3	..	38638i
12	8898	54.5	-23 28	6.12	6.3	B5	7	..	7734b	62	1344	54.9	+54 7	8.7	9.7	Ko	1	..	38638i
13	7829	54.5	-31 38	8.9	9.4	F8	2	..	22915b	63	2301	54.9	+8 31	4.89	6.24	Ma	..	0.8 R	1854c
14	6556	54.5	-34 3	8.7	10.8	Ko	1	..	22915b	64	3030	54.9	-2 59	8.6	8.9	Fo	4	..	22970b
15	6012	54.5	-39 57	9.3	9.8	F5	1	..	40276b	65	2774	54.9	-5 10	9.55	10.62	K2	1	..	22970b
16	2703	54.5	-56 56	8.4	8.9	Fo	6	0.5	40105b	66	2951	54.9	-15 46	9.5	10.1	Go	1	..	41224b
17	2473	54.5	-57 17	10.2	10.3	A2	2	..	40105b	67	2789	54.9	-22 39	9.2	10.3	Ko	1	..	13145b
18	1732	54.5	-58 53	9.9	10.0	A5	1	..	40105b	68	2788	54.9	-23 8	9.2	9.5	Fo	2	..	13145b
19	1551	54.5	-59 14	8.8	9.3	B9	6	..	40105b	69	6058	54.9	-36 52	9.3	9.9	K5	1	..	39922b
20	1231	54.5	-63 11	9.1	9.2	A2	4	..	40221b	70	6057	54.9	-36 53	10.0	9.6	F5	1	..	39922b
21	2239	54.6	+6 5	8.3	9.3	Ko	5	..	13393b	71	4701	54.9	-50 31	9.0	8.7	Ao	5	..	39864b
22	2275	54.6	-1 7	9.2	9.8	Go	1	..	22970b	72	4360	54.9	-51 23	9.8	9.8	K2	1	..	38408b
23	2936	54.6	-7 23	7.8	8.6	G5	7	..	19137b	73	2712	54.9	-57 1	9.5	10.3	G5	1	..	40105b
24	3001	54.6	-13 16	8.0	8.1	A2	7	..	18996b	74	1548	54.9	-60 16	7.79	8.9	G5	6	0.5-	40105b
25	2883	54.6	-19 42	8.0	8.5	F8	6	..	13145b	75	1379	54.9	-61 27	6.9	7.7	Ao	7	..	34089b
26	2884	54.6	-19 53	6.94	8.4	K2	7	..	13145b	76	1375	54.9	-62 17	8.3	9.3	Ko	2	..	40221b
27	2786	54.6	-22 19	9.5	10.3	Go	1	..	13145b	77	552	55.0	+69 16	7.9	8.3	F5	7	..	37706i
28	7831	54.6	-31 19	9.9	9.4	B9	2	..	22915b	78	1732	55.0	+47 23	8.9	9.7	G5	1	..	3829ri
29	6050	54.6	-35 25	5.25	6.8	Fo	..	R	56,127	79	1571	55.0	+46 36	8.8	9.6	G5	1	..	3829ri
30	5665	54.6	-40 53	7.4	8.6	G5	5	5.7	19157b	80	1827	55.0	+28 39	7.9	8.5	Go	4	..	38203i
31	2945	54.6	-54 25	10.0	10.0	Ao	1	..	38408b	81	2163	55.0	+24 2	9.5	9.6	A2	3	E	37571i
32	2943	54.6	-54 36	10.6	10.6	Ao	2	..	38408b	82	2153	55.0	+21 57	8.9	9.0	A3	3	..	37571i
33	2725	54.6	-55 41	8.9	8.6	B8	4	..	38797b	83	2240	55.0	+6 43	7.9	8.3	F5	7	..	9463b
34	1233	54.6	-64 1	6.49	8.0	Ko	8	..	40221b	84	3026	55.0	-18 11	7.8	7.9	A2	7	..	41224b
35	889	54.6	-71 16	8.8	9.8	Ko	2	..	39946b	85	3066	55.0	-21 5	9.2	9.5	F8	3	0.3	13145b
36	890	54.6	-71 59	8.8	10.0	K5	1	..	39946b	86	6202	55.0	-37 28	10.0	10.1	Ao	1	..	39922b
37	476	54.7	+71 50	8.1	9.1	Ko	3	..	37706i	87	5632	55.0	-45 29	9.0	9.0	B8	3	..	19157b
38	2965	54.7	-10 14	8.46	9.64	K5	3	..	18996b	88	2479	55.0	-57 47	10.4	10.7	Fo	1	..	40105b
39	2966	54.7	-10 35	8.8	9.4	Go	1	..	18996b	89	1559	55.0	-59 12	10.1	10.1	B8	1	..	40105b
40	7650	54.7	-25 43	8.9	9.9	K5	3	..	15600b	90	1560	55.0	-60 6	10.1	10.1	A	1	..	40105b
41	6056	54.7	-36 41	9.4	10.1	K5	1	..	39922b	91	650	55.0	-74 25	9.8	9.9	A2	2	..	21453b
42	4844	54.7	-49 39	9.1	8.9	G5	3	..	39864b	92	570	55.0	-77 25	9.0	9.5	F8	4	..	21453b
43	2946	54.7	-54 49	10.3	10.3	B8	2	..	38408b	93	1156	55.1	+61 26	9.0	9.8	G5	1	E	37725i
44	2727	54.7	-55 35	8.9	8.6	Ao	4	..	38797b	94	2775	55.1	-4 32	7.6	8.7	K2	7	..	22970b
45	2729	54.7	-55 51	9.7	9.7	Ao	2	..	38797b	95	2952	55.1	-15 49	8.6	9.8	K5	2	..	41224b
46	1737	54.7	-58 46	9.0	9.8	Fo	4	..	40105b	96	2889	55.1	-19 42	9.1	10.0	Fo	3	2.2	41224b
47	1168	54.7	-67 25	8.6	9.8	K5	1	..	40074b	97	5505	55.1	-41 55	8.7	8.9	Ao	5	..	19157b
48	891	54.7	-71 21	8.9	10.0	K2	1	..	39946b	98	5804	55.1	-43 9	10.0	10.1	Ao	2	..	19157b
49	2963	54.8	-6 1	9.5	10.1	Go	1	..	19137b	99	5690	55.1	-47 0	7.6	8.5	K2	4	..	39864b
50	2992	54.8	-14 29	9.2	10.3	K2	2	..	18996b	100	2486	55.1	-57 15	8.5	9.1	B9	5	..	40105b

THE HENRY DRAPER CATALOGUE.

86700

9^h 55^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2488	55.1	-57 50	10.6	10.6	B9	1	..	40105b	51	2938	55.4	-7 16	9.5	10.3	G5	1	..	19137b
2	2487	55.1	-58 3	10.0	10.0	B9	3	..	40105b	52	7990	55.4	-29 47	8.3	9.9	Go	2	..	22915b
3	1381	55.1	-62 6	7.2	8.1	G5	5	..	34089b	53	6948	55.4	-32 8	9.0	9.0	Ao	3	..	22915b
4	1238	55.1	-63 28	8.6	9.8	K5	2	..	40221b	54	6064	55.4	-44 28	6.94	7.0	Ao	8	..	40189b
5	954	55.1	-71 2	9.5	9.8	Fo	1	..	39946b	55	5638	55.4	-45 49	8.0	8.1	Fo	5	..	39864b
6	2059	55.2	+16 20	7.70	8.70	Ko	3	..	37571i	56	4373	55.4	-51 47	9.1	9.3	Ko	3	..	38408b
7	2302	55.2	+3 35	9.2	10.2	Ko	2	..	13393b	57	2968	55.4	-54 9	8.5	10.0	K2	3	..	38408b
8	2277	55.2	-0 35	9.2	10.2	Ko	1	..	22970b	58	2966	55.4	-54 50	9.4	10.0	Go	2	..	38408b
9	2776	55.2	-4 49	9.2	10.3	K2	1	..	22970b	59	1345	55.5	+53 50	9.1	9.9	G5	1	..	38638i
10	3054	55.2	-6 13	8.4	8.7	Fo	6	..	19137b	60	1380	55.5	+52 52	8.7	9.7	Ko	2	..	38638i
11	2792	55.2	-22 52	8.6	10.0	K2	2	..	13145b	61	2600	55.5	+0 17	8.9	9.9	Ko	3	..	13393b
12	7114	55.2	-27 51	7.9	9.6	K5	4	..	15600b	62	2954	55.5	-16 1	8.0	8.1	A2	7	..	41224b
13	6323	55.2	-34 23	10.4	10.7	F5	3	..	22915b	63	2796	55.5	-22 36	9.1	9.5	A5	2	..	13145b
14	6062	55.2	-44 32	8.5	8.8	Ko	2	..	19157b	64	8914	55.5	-24 1	8.9	9.2	Fo	4	..	13145b
15	5414	55.2	-48 0	8.5	8.4	Ko	4	..	39864b	65	8094	55.5	-30 52	7.34	8.7	K2	5	..	22915b
16	4851	55.2	-49 25	8.5	8.7	G5	4	..	39864b	66	7845	55.5	-32 5	8.1	9.0	Ko	3	..	22915b
17	4366	55.2	-51 21	9.6	9.3	Ko	2	0,1	38408b	67	6951	55.5	-32 43	9.8	9.9	Go	2	..	40082b
18	4369	55.2	-52 4	10.2	9.6	B9	1	..	38408b	68	6328	55.5	-34 32	9.0	10.1	Go	4	..	22915b
19	3010	55.2	-52 40	9.0	9.3	Ao	3	..	38408b	69	6327	55.5	-34 53	9.4	10.7	K2	2	..	22915b
20	3126	55.2	-53 23	10.0	10.0	B8	2	..	38408b	70	6210	55.5	-37 29	9.4	10.4	Ao	2	..	39922b
21	1566	55.2	-59 25	10.0	10.1	A2	3	..	40105b	71	1750	55.5	-58 17	9.30	9.2	B8	4	..	40105b
22	1565	55.2	-59 34	8.4	8.7	B9	3	0,8	34089b	72	1242	55.5	-63 51	8.4	8.4	Ao	6	..	40221b
23	1381	55.2	-62 53	9.6	9.6	Ao	2	..	40221b	73	1199	55.5	-66 5	8.6	9.8	K5	1	..	40221b
24	1133	55.2	-64 17	9.5	9.5	Ao	3	..	40221b	74	606	55.5	-76 49	8.4	9.6	K5	5	..	21453b
25	1228	55.3	+60 39	8.8	9.8	Ko	4	..	37725i	75	1423	55.6	+56 34	9.3	9.4	A3	1	..	38638i
26	1445	55.3	+52 37	9.3	10.3	Ko	1	..	38638i	76	2038	55.6	+37 0	7.9	8.5	Go	4	..	38241i
27	1984	55.3	+43 28	8.3	9.3	Ko	2	..	38291i	77	2083	55.6	+31 3	7.8	7.9	A2	4	..	38203i
28	1964	55.3	+32 26	5.60	6.38	G5	10	R	38673i	78	1986	55.6	+29 16	6.99	8.06	K2	4	..	38203i
29	1965	55.3	+32 1	8.6	8.6	A	1	R	38203i	79	2303	55.6	+8 42	9.0	10.1	K2	1	..	13402b
30	2415	55.3	+20 26	9.5	10.1	G	2	..	37571i	80	2821	55.6	-9 8	8.4	9.5	K2	4	..	19137b
31	2303	55.3	+18 2	7.9	8.3	F5	5	..	37571i	81	2955	55.6	-15 49	8.8	9.8	Ko	3	..	41224b
32	3828	55.3	-3 47	9.2	9.5	Fo	3	..	22970b	82	3030	55.6	-17 21	8.6	8.6	Ao	6	..	41224b
33	3055	55.3	-7 3	9.0	9.1	A2	5	..	19137b	83	5696	55.6	-46 17	9.6	9.3	A3	2	..	39864b
34	2938	55.3	-17 10	9.0	9.1	A2	4	..	41224b	84	5197	55.6	-48 44	9.8	9.3	Ao	2	..	39864b
35	7660	55.3	-25 55	7.57	8.7	K5	6	..	40303b	85	4856	55.6	-49 32	9.8	9.5	A2	2	..	39864b
36	6945	55.3	-33 0	9.0	10.0	Ko	1	..	40082b	86	2975	55.6	-54 30	9.2	10.0	G5	2	..	38408b
37	6058	55.3	-35 13	9.44	10.7	K2	2	..	22915b	87	1572	55.6	-59 37	9.4	9.5	A2	3	..	40105b
38	5817	55.3	-42 13	9.1	8.9	A2	4	..	19157b	88	1201	55.6	-65 27	9.0	9.0	Ao	3	..	40221b
39	5693	55.3	-46 37	7.6	8.4	K2	5	..	39864b	89	219	55.6	-85 58	9.8	9.8	Ao	3	..	22238b
40	2744	55.3	-55 53	9.8	9.8	Ao	2	..	38797b	90	630	55.7	+67 27	8.6	9.8	K5	1	..	38654i
41	2717	55.3	-56 12	8.5	10.0	Ko	3	5,3	40105b	91	1245	55.7	+57 44	7.9	8.3	F5	5	..	38638i
42	2716	55.3	-56 33	9.6	10.6	Ko	1	..	40105b	92	1986	55.7	+43 17	8.9	9.0	A2	2	..	38291i
43	2719	55.3	-57 6	10.6	10.6	Ao	2	..	40105b	93	1967	55.7	+32 20	9.2	9.6	F5	2	..	37529i
44	1748	55.3	-58 56	9.5	10.7	K5	1	..	40105b	94	2280	55.7	+9 27	8.0	8.6	Go	4	..	37724i
45	1446	55.4	+52 19	9.1	10.2	K2	1	..	38638i	95	3056	55.7	-6 37	8.4	8.7	F2	9	..	19137b
46	1566	55.4	+50 59	7.84	8.18	F2	4	..	38638i	96	2972	55.7	-10 25	8.6	8.6	B8	6	..	18996b
47	2094	55.4	+35 7	8.7	9.2	F8	1	..	38241i	97	5817	55.7	-44 4	9.1	9.0	A2	3	..	19157b
48	2154	55.4	+22 19	9.5	9.6	A5	2	..	37571i	98	5698	55.7	-46 31	9.6	9.0	Ao	3	..	39864b
49	2391	55.4	+1 19	9.4	10.2	G5	1	..	13393b	99	4858	55.7	-49 55	9.4	8.9	A2	3	..	39864b
50	2278	55.4	-0 46	9.2	10.2	Ko	2	..	22970b	100	2751	55.7	-56 0	9.6	9.7	A2	2	0,2	38797b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

86800

9^h 55^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1987	55.8	+29 2	8.8	9.4	Go	2	..	37529i	51	2730	56.1	-56 36	9.1	9.7	B8	4	..	40105b
2	2269	55.8	+ 5 29	8.1	9.3	K5	1	..	9463b	52	1760	56.1	-58 40	10.4	10.4	B9	1	..	40105b
3	3057	55.8	- 6 13	9.0	9.3	F2	5	..	19137b	53	1141	56.1	-64 10	9.2	9.2	B9	3	..	40221b
4	6064	55.8	-36 34	10.4	10.7	Ao	1	..	39922b	54	631	56.2	+66 55	8.7	9.2	F8	2	..	38654i
5	5422	55.8	-48 2	10.5	9.0	A3	3	..	39864b	55	882	56.2	+63 3	7.44	8.44	Ko	6	..	38654i
6	4859	55.8	-49 58	8.78	8.4	Ao	4	..	39864b	56	1791	56.2	+45 3	8.8	9.8	Ko	1	..	38291i
7	3025	55.8	-52 24	9.8	9.8	Ao	2	..	38408b	57	2167	56.2	+24 28	8.1	9.1	Ko	3	E	37571i
8	2756	55.8	-55 50	9.0	9.1	A2	3	1,2	38797b	58	3008	56.2	-13 40	8.6	9.7	K2	5	..	18996b
9	1574	55.8	-59 38	9.5	9.8	F2	3	..	40105b	59	3009	56.2	-13 44	9.0	9.6	Go	3	..	18996b
10	1139	55.8	-66 32	8.0	8.0	Ao	6	..	40221b	60	3071	56.2	-20 55	9.5	10.3	K5	1	..	41224b
11	2093	55.9	+38 13	8.7	9.2	F8	2	..	38241i	61	6039	56.2	-39 48	9.8	9.6	Go	2	..	39922b
12	1988	55.9	+29 0	8.7	9.2	F8	3	..	38203i	62	6038	56.2	-40 6	9.74	8.7	Ao	4	0,4	19157b
13	2305	55.9	+ 3 0	10.2	10.3	A2	3	..	13393b	63	5688	56.2	-40 26	9.0	9.2	F5	4	0,3	19157b
14	2831	55.9	- 3 47	8.7	8.8	A5	6	..	22970b	64	5653	56.2	-45 33	8.6	9.3	K2	2	..	19157b
15	2830	55.9	- 3 53	9.5	9.9	F5	4	..	22970b	65	5203	56.2	-48 28	8.4	8.9	Ko	3	..	39864b
16	2890	55.9	-19 28	9.7	10.0	A2	3	0,1	41224b	66	4391	56.2	-52 5	9.4	9.3	Fo	3	..	38408b
17	8106	55.9	-30 9	9.35	9.3	A2	3	..	22915b	67	2986	56.2	-54 53	8.8	9.4	A3	4	..	38797b
18	6332	55.9	-34 50	7.5	8.2	Ao	5	..	13116b	68	1387	56.2	-62 52	7.6	8.4	G5	5	..	34089b
19	6067	55.9	-35 34	7.48	7.8	Go	7	..	13116b	69	1251	56.2	-63 53	9.5	9.5	Ao	3	..	40221b
20	5829	55.9	-42 32	8.0	9.0	Ko	3	..	19157b	70	767	56.3	+64 35	8.1	8.4	F2	4	..	38654i
21	2723	55.9	-56 58	9.9	10.9	Ko	1	..	40105b	71	1706	56.3	+50 21	7.50	8.50	Ko	4	..	38291i
22	2512	55.9	-57 25	9.0	9.4	Fo	4	..	40105b	72	1736	56.3	+46 51	8.17	8.95	G5	4	..	38291i
23	2510	55.9	-57 39	7.4	7.8	B9	6	0,10	34089b	73	1970	56.3	+32 1	7.50	8.28	G5	2	..	38203i
24	2508	55.9	-57 46	9.7	9.7	A	3	..	40105b	74	2832	56.3	- 3 22	9.5	9.6	A3	4	..	22970b
25	1575	55.9	-59 14	8.2	9.8	Ko	3	..	40105b	75	8108	56.3	-30 18	8.7	9.0	A2	5	..	22915b
26	2061	56.0	+16 10	7.9	8.9	Ko	4	..	37571i	76	6336	56.3	-34 12	9.4	10.4	G5	2	..	40082b
27	2219	56.0	+ 7 42	8.9	9.4	F8	4	..	13402b	77	5521	56.3	-41 51	10.7	9.2	A3	3	..	19157b
28	2306	56.0	+ 3 46	9.2	10.2	Ko	2	..	13393b	78	5205	56.3	-48 53	8.4	8.0	B9	5	..	39864b
29	3032	56.0	- 2 42	7.28	8.46	K5	7	..	22970b	79	2734	56.3	-57 2	10.3	10.3	B8	2	..	40105b
30	7595	56.0	-26 40	8.5	9.1	K5	4	..	15600b	80	2519	56.3	-57 22	9.9	10.9	Ko	1	..	40105b
31	8001	56.0	-29 16	9.4	10.5	Ko	1	..	15600b	81	2518	56.3	-57 38	10.0	10.3	Fo	2	..	40105b
32	5516	56.0	-41 59	8.0	9.0	K2	4	..	19157b	82	1584	56.3	-59 15	9.8	9.8	Ao	2	..	40105b
33	4863	56.0	-49 22	9.0	8.9	Go	2	..	39864b	83	157	56.3	-87 29	8.9	10.0	K2	2	3,1	22578b
34	3144	56.0	-53 58	10.3	10.3	Ao	2	..	38408b	84	1231	56.4	+58 35	7.38	7.88	F8	4	..	38638i
35	2726	56.0	-56 27	10.1	10.7	G	1	..	40105b	85	2277	56.4	+ 4 44	9.21	9.49	Fo	4	..	13393b
36	1384	56.0	-61 50	8.0	8.3	A5	5	..	34089b	86	3059	56.4	- 6 40	9.1	10.1	Ko	3	..	19137b
37	1140	56.0	-64 57	9.2	9.2	Ao	6	..	40221b	87	6073	56.4	-35 28	9.4	10.1	A5	3	0,2	22915b
38	464	56.0	-79 57	9.5	9.8	F2	5	..	21453b	88	5833	56.4	-42 24	7.8	8.0	A2	9	0,9	19157b
39	525	56.1	+71 21	8.3	8.8	F8	4	..	37706i	89	5827	56.4	-43 57	9.8	9.0	B5	4	..	19157b
40	1158	56.1	+61 24	8.7	9.7	Ko	2	..	37725i	90	4868	56.4	-49 45	9.4	8.9	Ao	3	..	39864b
41	1735	56.1	+47 11	9.8	10.8	Ko	1	..	38291i	91	4395	56.4	-52 4	9.0	10.0	K5	1	..	38408b
42	2280	56.1	- 0 17	9.18	9.18	Ao	5	..	13393b	92	1763	56.4	-58 15	9.2	9.2	B9	4	..	40105b
43	8003	56.1	-29 14	10.4	10.2	Ao	1	..	15600b	93	1210	56.4	-65 30	7.8	7.8	B8	8	..	40221b
44	7855	56.1	-31 41	8.9	8.7	A2	2	..	22915b	94	1246	56.5	+57 9	7.9	8.3	F5	4	..	38638i
45	6334	56.1	-34 26	10.0	10.4	Ao	2	..	40082b	95	1346	56.5	+54 21	9.0	10.0	Ko	2	..	38638i
46	6067	56.1	-36 16	8.0	9.5	G5	4	5,2	39922b	96	2041	56.5	+37 30	9.2	9.8	Go	2	..	38241i
47	5202	56.1	-49 6	9.0	9.2	F5	2	..	39864b	97	2160	56.5	+22 11	8.8	9.9	K2	2	..	38642i
48	4390	56.1	-51 22	9.6	9.3	Ko	1	..	38408b	98	2132	56.5	+12 38	7.9	8.9	Ko	5	..	37724i
49	3029	56.1	-52 44	9.0	9.2	F2	4	..	38797b	99	2220	56.5	+ 7 33	9.2	10.2	Ko	1	..	13402b
50	2731	56.1	-56 20	9.9	10.7	G5	1	..	40105b	100	2276	56.5	+ 2 46	8.7	9.7	Ko	4	..	13393b

THE HENRY DRAPER CATALOGUE.

86900

9^h 56^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2392	56.5	+ 1 37	8.5	9.5	Ko	2	..	13393b	51	7869	56.8	-31 12	10.2	10.8	K2	1	..	22915b
2	2281	56.5	- 0 32	7.16	7.16	Ao	9	..	13393b	52	6590	56.8	-33 49	9.6	9.9	Fo	2	..	40082b
3	3036	56.5	- 2 25	9.0	10.0	Ko	1	..	22970b	53	6342	56.8	-34 8	8.4	10.1	K5	3	..	40082b
4	8014	56.5	-29 30	9.5	9.9	F8	2	..	22915b	54	6100	56.8	-38 8	9.4	10.1	G5	1	..	39922b
5	8110	56.5	-30 58	10.2	10.0	Ao	2	..	22915b	55	5695	56.8	-40 25	8.7	9.5	K5	1	..	40276b
6	6588	56.5	-33 47	10.0	10.0	A2	2	..	40082b	56	4873	56.8	-49 53	9.4	10.0	G5	2	..	39864b
7	3039	56.5	-52 31	9.5	9.5	B9	2	..	38408b	57	4729	56.8	-50 36	8.9	8.7	Ko	2	..	38797b
8	3161	56.5	-53 31	10.2	10.3	A2	3	..	38408b	58	2740	56.8	-56 46	10.0	10.0	B9	2	..	40105b
9	1766	56.5	-58 47	8.5	8.9	Ao	2	..	34089b	59	1596	56.8	-59 41	10.1	10.1	B9	3	..	40105b
10	895	56.5	-71 35	7.4	7.4	B8	7	..	22988b	60	1595	56.8	-59 56	9.2	9.5	Fo	3	..	40105b
11	1232	56.6	+58 1	8.9	9.7	G5	3	..	38638i	61	1567	56.8	-60 49	9.4	9.8	F5	1	..	40221b
12	2337	56.6	- 1 30	9.2	10.4	K5	2	..	22970b	62	1390	56.8	-61 7	8.5	9.8	K5	3	..	40221b
13	3002	56.6	-14 58	7.61	7.61	Ao	8	..	41224b	63	896	56.8	-71 12	8.9	9.7	G5	3	..	39946b
14	2942	56.6	-16 53	9.0	9.1	A2	3	..	41224b	64	1233	56.9	+60 21	8.5	8.9	F5	5	..	37725i
15	2827	56.6	-19 12	8.7	8.8	A5	3	..	40313b	65	2304	56.9	+39 6	7.8	8.3	F8	3	..	38241i
16	2804	56.6	-22 17	7.54	8.1	Ao	7	..	13145b	66	2094	56.9	+38 23	7.9	8.3	F5	4	..	38241i
17	2803	56.6	-22 40	7.57	8.2	F5	6	..	13145b	67	2293	56.9	+19 37	8.50	9.68	K5	2	..	37571i
18	8017	56.6	-29 37	8.9	9.9	Ko	2	..	22915b	68	2278	56.9	+ 4 22	8.7	9.2	F8	2	..	13393b
19	6040	56.6	-39 20	9.8	10.1	K2	1	..	40276b	69	2278	56.9	+ 2 21	9.2	10.2	Ko	2	..	13393b
20	5525	56.6	-42 1	10.7	9.8	A2	2	..	19157b	70	2840	56.9	- 3 53	8.6	9.8	K5	3	..	22970b
21	4398	56.6	-51 13	9.8	9.2	A2	2	..	38797b	71	2972	56.9	- 5 14	9.15	10.22	K2	1	..	22970b
22	1768	56.6	-58 10	8.9	9.8	Ko	2	..	40105b	72	3003	56.9	-14 57	8.7	9.8	K2	2	..	41224b
23	1387	56.6	-61 53	8.6	8.9	A3	5	..	40221b	73	8674	56.9	-24 56	9.5	10.1	Ko	1	..	13145b
24	884	56.6	-72 25	9.4	9.4	Ao	2	..	22988b	74	6104	56.9	-38 53	8.2	8.9	Ko	4	..	40276b
25	482	56.7	+73 17	9.6	10.0	F5	2	..	37714i	75	6103	56.9	-39 5	10.9	10.1	A	1	..	40276b
26	2302	56.7	+39 31	8.8	9.1	F2	2	..	38241i	76	5697	56.9	-40 22	8.5	8.6	A5	6	2,7	40276b
27	2064	56.7	+15 51	8.3	8.8	F8	3	..	37724i	77	5435	56.9	-47 7	9.6	8.5	A2	4	..	39864b
28	2194	56.7	+13 22	8.5	9.6	K2	3	..	37724i	78	4875	56.9	-49 25	9.8	9.2	Ao	2	..	39864b
29	3037	56.7	-18 4	8.8	8.8	Ao	5	..	40313b	79	2532	56.9	-57 19	10.7	10.7	Ao	1	..	40105b
30	6968	56.7	-32 38	9.1	9.4	F5	3	..	40082b	80	1773	56.9	-58 38	9.3	9.6	Fo	2	..	40105b
31	6589	56.7	-33 49	8.8	9.4	F2	3	..	40082b	81	1600	56.9	-59 51	9.8	9.8	B9	3	..	40105b
32	3043	56.7	-52 12	10.0	10.0	Ao	1	..	38408b	82	1598	56.9	-60 1	7.56	8.3	Fo	5	0,9	34089b
33	3047	56.7	-52 48	9.0	9.2	F2	3	..	38797b	83	1257	56.9	-63 59	8.3	8.3	B9	5	..	40221b
34	3164	56.7	-53 21	9.0	9.7	F2	3	..	38797b	84	1213	56.9	-65 52	9.1	9.2	A2	3	..	40221b
35	1589	56.7	-59 42	9.0	9.8	G5	4	..	40105b	85	2305	57.0	+39 47	8.02	8.30	Fo	6	..	38241i
36	1591	56.7	-59 44	var.	var.	Nb	1	0,2 R	34089b	86	2156	57.0	+15 4	7.9	7.9	Ao	7	1,4	37724i
37	1144	56.7	-66 55	9.3	9.6	Fo	1	..	40074b	87	2279	57.0	+ 4 25	8.3	8.7	F5	6	..	13393b
38	1177	56.7	-68 1	9.0	9.5	F8	1	..	40074b	88	3039	57.0	- 3 6	9.0	9.5	F8	3	..	22970b
39	885	56.7	-72 42	9.3	9.3	Ao	3	..	39946b	89	3055	57.0	-12 25	7.92	8.92	Ko	4	..	18996b
40	593	56.8	+70 43	8.1	8.1	B8	5	..	37706i	90	3074	57.0	-20 29	8.8	9.7	F5	4	0,3	41224b
41	1347	56.8	+53 51	8.3	9.3	Ko	5	..	38638i	91	7608	57.0	-26 11	9.1	9.4	F5	2	E	40303b
42	1707	56.8	+50 36	7.04	8.11	K2	4	..	38291i	92	6105	57.0	-38 58	7.09	8.0	B9	8	..	40276b
43	1907	56.8	+49 41	8.27	8.55	Fo	3	..	38291i	93	5836	57.0	-43 17	9.1	9.7	K2	2	..	19157b
44	1574	56.8	+46 41	7.86	8.86	Ko	4	..	38291i	94	3057	57.0	-52 57	8.9	10.1	K5	1	..	38408b
45	2303	56.8	+39 45	8.47	8.81	F2	5	..	38241i	95	3007	57.0	-54 39	10.0	10.0	B8	2	..	38797b
46	2195	56.8	+25 46	9.1	10.1	Ko	1	..	38642i	96	2534	57.0	-57 34	8.1	7.9	Ao	7	..	40105b
47	2338	56.8	- 1 48	8.7	9.2	F8	4	..	22970b	97	1779	57.0	-58 31	8.3	8.6	Go	4	..	40105b
48	2839	56.8	- 3 27	9.2	10.3	K2	3	..	22970b	98	1778	57.0	-59 4	9.2	9.2	B9	2	..	40105b
49	2780	56.8	- 4 39	8.2	9.4	K5	5	..	22970b	99	1571	57.0	-60 53	9.9	10.0	A2	1	..	40221b
50	2943	56.8	-16 51	8.0	9.0	Ko	7	..	41224b	100	587	57.1	+67 54	8.6	9.4	G5	1	..	38654i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

87000

9^h 57^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1737	57.1	+47 37	8.7	9.5	G5	2	..	38291i	51	2977	57.4	- 9 22	9.2	10.4	K5	1	..	19137b
2	1795	57.1	+45 7	8.1	8.2	A3	4	..	38291i	52	2895	57.4	-19 17	8.7	9.7	F5	2	..	40313b
3	2042	57.1	+37 20	8.7	9.2	F8	2	..	38241i	53	3076	57.4	-20 15	9.7	9.3	Ko	1	..	13145b
4	2067	57.1	+16 32	8.9	9.5	G	3	..	37571i	54	3078	57.4	-21 5	9.2	9.7	Go	2	..	13145b
5	2157	57.1	+14 49	8.29	8.37	A3	5	..	37724i	55	5707	57.4	-40 7	10.4	9.8	A2	1	..	40276b
6	2282	57.1	- 0 58	10.6	10.7	A2	1	..	22970b	56	5850	57.4	-43 5	8.0	8.9	Ko	3	..	19157b
7	2975	57.1	- 9 56	9.0	10.1	K2	2	..	18996b	57	5727	57.4	-47 3	9.4	9.5	F8	2	..	39864b
8	2807	57.1	-23 7	8.6	8.8	Fo	3	..	13145b	58	3015	57.4	-54 21	9.9	10.0	A3	3	..	38797b
9	7688	57.1	-25 59	8.1	8.3	Ko	6	..	40303b	59	1616	57.4	-59 9	8.9	8.9	B8	5	..	40105b
10	6078	57.1	-35 11	9.3	10.1	A2	5	1,3	22915b	60	1579	57.4	-60 35	9.8	9.8	A	2	..	40105b
11	5844	57.1	-43 4	10.2	9.5	A2	2	..	19157b	61	2308	57.5	+ 3 33	9.4	10.4	Ko	1	..	19341b
12	5720	57.1	-46 26	8.0	7.4	A2	7	..	39864b	62	2309	57.5	+ 3 0	9.0	10.0	Ko	1	..	19341b
13	1781	57.1	-58 18	8.22	9.2	K2	3	..	40105b	63	2975	57.5	- 6 6	9.0	9.6	Go	4	..	19137b
14	400	57.2	+74 48	8.42	9.20	G5	3	..	37714i	64	2944	57.5	- 7 35	9.2	10.0	G5	2	..	19137b
15	2164	57.2	+22 26	5.59	5.42	B3	9	0,10	38642i	65	3007	57.5	-14 26	8.6	9.7	K2	3	..	41224b
16	2976	57.2	- 9 57	7.51	8.51	Ko	7	..	18996b	66	3079	57.5	-20 22	9.08	9.7	Go	2	5,2	13145b
17	3013	57.2	-13 55	7.85	9.03	K5	5	..	18996b	67	3080	57.5	-20 44	9.2	9.7	F8	2	0,2-	13145b
18	3038	57.2	-17 30	8.0	9.1	K2	6	..	40313b	68	7886	57.5	-31 21	9.7	9.9	A	2	..	22915b
19	8928	57.2	-23 19	6.88	8.4	G5	7	..	13145b	69	6601	57.5	-34 0	8.4	9.4	G5	3	..	40082b
20	8116	57.2	-30 19	8.5	9.9	G5	2	..	22915b	70	2540	57.5	-57 38	9.1	9.1	B9	4	..	40105b
21	6979	57.2	-32 43	9.3	9.3	Ao	3	..	40082b	71	1627	57.5	-59 41	9.1	10.1	Ko	1	..	40105b
22	6980	57.2	-33 5	9.4	9.4	B9	3	..	40082b	72	1215	57.5	-65 48	7.9	8.9	Ko	2	..	40221b
23	6228	57.2	-37 37	8.0	8.6	F8	5	..	40276b	73	1178	57.5	-67 11	9.0	9.0	B9	4	..	40074b
24	6098	57.2	-44 21	8.0	7.9	Ao	7	..	19157b	74	491	57.5	-79 0	10.0	10.3	Fo	2	..	21453b
25	5723	57.2	-46 52	8.9	8.9	Ko	3	..	39864b	75	588	57.6	+68 23	9.1	10.1	Ko	1	..	38654i
26	4876	57.2	-50 0	7.18	7.4	B5	..	0,8	56,127	76	1234	57.6	+60 9	8.1	8.2	A3	7	..	37725i
27	3063	57.2	-52 38	9.0	9.2	Go	2	..	38797b	77	2310	57.6	+ 8 12	9.2	9.7	F8	2	..	13402b
28	3013	57.2	-54 33	9.1	10.0	Ko	1	..	38797b	78	2280	57.6	+ 2 15	9.6	9.6	Ao	3	..	19341b
29	2747	57.2	-56 14	10.0	10.3	Fo	1	..	40105b	79	2394	57.6	+ 1 35	9.4	9.9	F8	1	..	19341b
30	2746	57.2	-56 28	6.37	7.9	G5	8	5,9	38797b	80	6602	57.6	-33 12	9.5	10.5	G5	2	..	40082b
31	1609	57.2	-59 31	9.1	9.0	B9	6	..	40105b	81	6235	57.6	-37 48	10.0	10.7	Ao	2	..	39922b
32	1214	57.2	-65 33	8.2	9.3	K2	3	..	40221b	82	5855	57.6	-43 6	10.0	9.0	A2	3	..	19157b
33	1233	57.3	+57 57	8.2	8.6	F5	2	..	38638i	83	4740	57.6	-50 48	8.9	9.2	G	1	..	38797b
34	2079	57.3	+42 29	7.20	7.70	F8	6	..	38241i	84	3073	57.6	-52 20	8.8	9.6	K5	2	..	38408b
35	2279	57.3	+ 2 18	8.4	8.5	A5	8	..	13393b	85	3074	57.6	-52 33	9.7	9.8	A2	1	..	38408b
36	3005	57.3	-14 33	7.40	7.40	Ao	9	..	41224b	86	2791	57.6	-56 0	9.4	9.4	A	1	..	40105b
37	7839	57.3	-28 11	9.7	8.9	A	6	R	33939b	87	2753	57.6	-56 37	10.2	10.3	A3	2	..	40105b
38	7838	57.3	-28 12	9.1	8.5	F2	3	..	40082b	88	1793	57.6	-58 15	9.0	9.3	Fo	5	..	40105b
39	6347	57.3	-34 21	9.4	9.5	F2	3	..	40082b	89	1400	57.6	-61 17	8.0	8.9	Ko	5	..	40221b
40	6229	57.3	-37 13	9.1	10.4	Ao	2	..	40276b	90	887	57.6	-72 18	8.4	8.8	F5	6	..	22988b
41	6230	57.3	-37 36	8.7	10.7	Mb	1	..	39922b	91	401	57.7	+75 5	9.8	10.2	F5	2	..	37714i
42	1614	57.3	-59 31	8.9	8.9	B9	7	..	40105b	92	2022	57.7	+36 26	8.7	9.2	F8	1	..	38241i
43	632	57.4	+67 46	7.11	8.11	Ko	8	..	38654i	93	2227	57.7	+ 7 35	8.5	8.6	A5	4	..	13402b
44	633	57.4	+66 53	8.2	9.2	Ko	4	..	38654i	94	2281	57.7	+ 1 58	8.6	8.7	A2	6	..	13393b
45	1284	57.4	+59 41	8.51	9.51	Ko	3	..	37725i	95	2285	57.7	- 0 35	7.02	8.02	Ko	9	..	19341b
46	2080	57.4	+41 47	7.72	9.07	Ma	3	0,2	38241i	96	3057	57.7	-12 49	6.96	7.46	F8	9	..	18996b
47	2088	57.4	+31 32	10.0	10.0	Ao	2	..	37529i	97	3010	57.7	-14 39	8.6	9.4	G5	3	..	41224b
48	2281	57.4	+ 4 10	8.5	8.9	F5	4	..	13393b	98	2966	57.7	-15 32	8.4	8.4	Ao	7	..	41224b
49	2340	57.4	- 1 39	8.7	9.2	F8	5	..	22970b	99	6603	57.7	-33 41	7.17	7.8	A5	7	..	13116b
50	3060	57.4	- 6 37	9.2	9.7	F8	3	..	19137b	100	6110	57.7	-38 26	8.2	8.6	F2	5	..	40276b

THE HENRY DRAPER CATALOGUE.

87100

9^h 57^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	° ' "									m.	° ' "						
1	5540	57.7	-41 16	9.0	8.6	A5	4	0,4	19157b	51	5230	58.0	-48 29	9.1	9.5	Ko	1	..	39864b
2	5538	57.7	-42 0	7.4	8.6	Ko	7	2,7	19157b	52	3087	58.0	-52 53	6.50	6.9	B5	10	..	38797b
3	3020	57.7	-54 14	8.5	9.7	K2	2	..	38797b	53	3185	58.0	-53 56	9.5	10.3	G5	1	..	38408b
4	3021	57.7	-55 6	9.53	9.4	A2	3	..	38797b	54	3025	58.0	-54 19	10.0	10.0	B9	2	..	38797b
5	2793	57.7	-55 31	9.1	9.1	B9	4	..	38797b	55	2798	58.0	-55 59	8.9	9.8	B9	5	..	38797b
6	2792	57.7	-55 48	9.4	9.4	Ao	3	..	38797b	56	2764	58.0	-56 41	9.6	9.7	A5	3	3,2-	38408b
7	2756	57.7	-56 28	10.0	10.0	Ao	2	..	40105b	57	1799	58.0	-58 30	9.0	8.9	B8	4	..	40105b
8	1796	57.7	-58 56	8.5	9.5	Ko	2	..	40105b	58	1938	58.1	+33 8	7.60	8.10	F8	3	..	38241i
9	1632	57.7	-59 45	8.2	9.0	Ko	5	..	40105b	59	2247	58.1	+6 33	8.6	8.7	A3	4	..	13402b
10	1401	57.7	-61 12	9.6	9.6	Ao	2	..	40221b	60	2274	58.1	+5 9	8.4	8.8	F5	5	..	9463b
11	400	57.7	-80 49	8.7	9.7	Ko	2	..	21453b	61	2833	58.1	-8 24	8.0	8.6	Go	6	..	19137b
12	1234	57.8	+58 19	9.5	9.5	Ao	2	..	38224i	62	3039	58.1	-17 25	9.9	10.4	F8	3	..	40313b
13	1909	57.8	+49 4	7.68	8.02	F2	6	..	38291i	63	2973	58.1	-21 37	7.80	9.5	K5	4	..	40303b
14	2273	57.8	+5 35	8.9	10.1	K5	1	..	13402b	64	7707	58.1	-26 2	9.2	8.9	A3	4	..	40303b
15	2976	57.8	-6 1	8.8	9.9	K2	2	..	19137b	65	4750	58.1	-50 17	8.48	8.9	K5	2	3,2	38797b
16	8125	57.8	-30 49	9.4	9.0	Ao	4	..	22915b	66	3033	58.1	-54 41	9.8	10.0	B2	2	R	38797b
17	6356	57.8	-34 28	8.7	10.7	Ko	2	..	40082b	67	2803	58.1	-55 39	9.7	9.7	Ao	2	..	38797b
18	6111	57.8	-38 12	8.7	9.3	A2	2	..	40276b	68	2547	58.1	-57 37	9.7	10.3	Go	2	..	40105b
19	5542	57.8	-41 29	8.7	8.9	A3	5	0,4	19157b	69	1653	58.1	-59 51	9.8	9.8	Ao	3	..	40105b
20	5226	57.8	-49 2	9.0	9.6	Ko	1	..	39864b	70	1654	58.1	-59 58	9.31	10.3	Ko	1	..	40105b
21	3181	57.8	-53 41	9.9	10.0	A2	2	..	38797b	71	143	58.2	+86 19	8.8	8.9	A3	3	..	37546i
22	2794	57.8	-55 37	6.60	7.4	B8	9	..	38797b	72	883	58.2	+63 33	8.2	9.3	K2	2	..	38654i
23	2758	57.8	-56 11	8.4	9.1	Go	5	5,5	40105b	73	1427	58.2	+55 56	9.6	10.2	Go	2	..	38638i
24	2756	57.8	-56 28	10.0	10.0	A	1	..	38797b	74	1972	58.2	+31 58	8.5	9.5	Ko	2	2,1	37529i
25	1633	57.8	-59 29	9.0	9.0	B9	5	..	40105b	75	2423	58.2	+20 45	9.5	10.1	G	2	..	37571i
26	589	57.9	+68 5	8.6	9.7	K2	1	..	38654i	76	2193	58.2	+13 57	7.6	8.0	F5	5	..	37724i
27	2096	57.9	+38 33	6.82	7.24	F5	7	..	38241i	77	2197	58.2	+13 22	8.5	8.8	F2	3	..	37724i
28	3042	57.9	-2 32	9.5	10.7	K5	1	..	22970b	78	2100	58.2	+10 23	7.14	7.48	F2	7	..	37724i
29	2977	57.9	-5 27	9.0	10.2	K5	3	..	22970b	79	2282	58.2	+2 33	8.9	9.4	F8	5	..	19341b
30	2897	57.9	-19 57	6.88	7.2	Ao	8	..	40313b	80	2946	58.2	-8 6	8.4	8.4	Ao	6	..	19137b
31	8692	57.9	-24 59	9.15	9.2	F8	3	..	40303b	81	2834	58.2	-9 4	8.5	9.5	Ko	4	..	19137b
32	7702	57.9	-25 59	10.2	9.2	A2	2	..	40303b	82	2983	58.2	-10 42	9.0	9.8	G5	2	..	18996b
33	5848	57.9	-43 48	10.5	8.9	A2	3	..	19157b	83	2984	58.2	-10 59	9.0	9.1	A2	3	..	18996b
34	5453	57.9	-47 25	8.8	8.3	B8	5	..	39864b	84	3040	58.2	-17 32	9.9	11.3	Ma	1	..	40313b
35	3081	57.9	-52 59	9.1	9.5	G5	2	..	38408b	85	3083	58.2	-20 21	8.93	8.8	A2	4	..	40313b
36	1638	57.9	-59 15	8.5	8.9	B9	7	..	40105b	86	6359	58.2	-34 20	9.1	10.7	F5	1	..	40082b
37	1643	57.9	-59 50	8.31	8.6	Ao	6	..	40105b	87	6117	58.2	-38 40	9.3	10.1	K5	1	..	40276b
38	1179	57.9	-67 40	8.4	9.2	G5	4	..	40074b	88	5862	58.2	-42 39	9.4	8.9	A5	3	..	19157b
39	1426	58.0	+56 39	9.3	10.4	K2	1	..	38638b	89	5856	58.2	-43 9	9.4	10.5	K	1	..	19157b
40	1362	58.0	+54 50	8.61	9.61	Ko	1	..	38638i	90	3034	58.2	-55 0	8.84	9.4	F5	3	..	38797b
41	1348	58.0	+54 23	5.74	6.16	F5	9	..	38638i	91	1663	58.2	-59 11	9.8	9.8	B9	3	..	40105b
42	1841	58.0	+27 36	10.4	10.5	A2	1	..	37529i	92	1584	58.2	-60 30	8.3	9.2	Ko	4	2,3	40105b
43	2311	58.0	+8 43	8.1	8.5	F5	6	..	37724i	93	1160	58.3	+61 39	9.0	9.5	F8	2	..	37725i
44	2784	58.0	-5 8	7.50	8.68	K5	5	..	22970b	94	1428	58.3	+55 57	8.1	9.3	K5	2	..	38638i
45	3062	58.0	-6 22	9.0	9.3	F2	4	..	19137b	95	2309	58.3	+18 40	7.9	8.4	F8	5	..	37571i
46	2979	58.0	-9 45	8.7	9.9	K5	1	..	18996b	96	2605	58.3	+0 8	9.9	10.7	G5	1	..	19341b
47	2982	58.0	-10 45	8.7	9.7	Ko	2	..	18996b	97	2979	58.3	-6 9	9.0	9.1	A5	4	..	19137b
48	3082	58.0	-20 33	9.5	9.7	Ao	1	..	40313b	98	2947	58.3	-16 40	9.1	10.1	Ko	2	..	40313b
49	5712	58.0	-40 50	9.4	9.6	K2	1	..	19157b	99	8034	58.3	-30 6	6.62	7.6	Ko	7	..	22915b
50	5228	58.0	-48 24	10.0	9.3	A5	1	..	39864b	100	7896	58.3	-31 29	8.1	9.3	Ko	4	..	22915b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

87200

9^h 58^m .3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5739	58.3	-46 18	8.8	9.4	Ko	2	..	39864b	51	6076	58.6	-40 7	9.48	9.8	Ko	2	..	40276b
2	3097	58.3	-52 31	8.3	8.4	B5	5	..	38797b	52	5467	58.6	-48 1	10.5	9.7	A2	2	..	39864b
3	3193	58.3	-53 43	8.2	8.3	B3	5	..	38797b	53	3108	58.6	-52 20	8.9	9.5	Ko	3	..	38408b
4	2809	58.3	-55 33	9.1	9.1	Ao	3	..	38797b	54	3043	58.6	-54 30	8.3	9.1	Ko	3	..	38797b
5	1667	58.3	-59 35	9.6	9.6	Ao	2	..	40105b	55	1814	58.6	-58 10	9.0	9.8	Go	4	..	40105b
6	555	58.4	+69 9	9.5	10.1	G	1	..	37706i	56	1402	58.6	-62 22	9.0	9.0	Ao	6	..	40221b
7	749	58.4	+64 54	7.65	7.99	F2	8	..	38654i	57	899	58.6	-72 4	8.2	8.5	F2	5	..	22988b
8	1236	58.4	+60 26	9.3	10.1	G5	2	..	37725i	58	1572	58.7	+51 2	7.40	8.47	K2	4	..	38291i
9	1988	58.4	+42 52	8.1	8.6	F8	3	..	38291i	59	1740	58.7	+47 3	8.6	9.6	Ko	1	..	38291i
10	1939	58.4	+32 56	7.38	8.38	Ko	2	..	38241i	60	2099	58.7	+35 34	8.3	8.8	F8	1	..	38241i
11	2297	58.4	+19 25	7.90	8.68	G5	4	..	37571i	61	2232	58.7	+7 40	8.7	9.2	F8	4	..	13402b
12	2137	58.4	+12 36	8.1	9.3	K5	3	..	37724i	62	2836	58.7	-9 5	6.41	7.41	Ko	8	..	19137b
13	2283	58.4	+4 27	7.45	8.45	Ko	7	5,8	9463b	63	7905	58.7	-31 33	9.2	10.7	K5	1	..	40082b
14	2985	58.4	-10 15	7.21	8.21	Ko	8	..	18996b	64	6124	58.7	-38 55	10.4	10.1	F2	1	..	40276b
15	3042	58.4	-18 1	8.7	9.9	K5	1	..	40313b	65	5241	58.7	-48 23	7.8	7.7	B5	7	..	39864b
16	8951	58.4	-23 57	9.4	10.0	A2	3	..	40303b	66	1683	58.7	-59 30	8.5	8.7	B9	6	..	40105b
17	7856	58.4	-28 42	10.2	10.6	Go	1	..	15600b	67	900	58.7	-71 24	9.2	10.6	Ma	1	..	39946b
18	7855	58.4	-28 50	9.5	9.7	A3	2	..	39939b	68	609	58.7	-76 16	9.0	9.0	Ao	7	..	21453b
19	5238	58.4	-48 26	9.6	9.2	A2	4	..	39864b	69	326	58.7	-83 57	8.3	9.3	Ko	3	..	13465b
20	4423	58.4	-51 52	10.2	10.0	Ko	2	..	38408b	70	2167	58.8	+22 39	9.1	9.9	G5	2	..	37571i
21	3041	58.4	-54 31	8.1	8.2	B8	7	..	38797b	71	2138	58.8	+12 7	7.04	7.04	Ao	8	..	37724i
22	1671	58.4	-59 52	9.0	9.2	B9	4	..	40105b	72	2286	58.8	+9 15	9.9	10.2	Fo	1	..	13402b
23	1152	58.4	-66 14	8.9	9.5	Go	2	..	40074b	73	2948	58.8	-7 54	8.7	9.1	F5	4	..	19137b
24	326	58.5	+79 33	9.06	9.62	Go	2	..	37493i	74	3064	58.8	-12 24	7.18	8.25	K2	7	..	18996b
25	2047	58.5	+41 9	8.2	9.2	Ko	1	..	38241i	75	8707	58.8	-24 12	9.1	9.7	Go	2	..	40303b
26	2098	58.5	+34 59	8.7	9.7	Ko	1	..	38673i	76	7636	58.8	-26 14	9.9	9.1	F8	3	..	40303b
27	2284	58.5	+2 35	9.4	10.6	K5	1	..	19341b	77	7635	58.8	-26 54	8.5	9.1	Ko	2	..	39939b
28	2395	58.5	+1 28	9.0	9.8	G5	3	..	19341b	78	7008	58.8	-32 13	9.3	9.9	F2	2	..	40082b
29	3062	58.5	-12 24	8.4	8.5	A2	7	..	18996b	79	3201	58.8	-53 34	10.3	10.3	Ao	1	..	38408b
30	3088	58.5	-20 27	8.03	8.4	Ko	6	..	40313b	80	3045	58.8	-54 20	9.6	9.7	A3	3	..	38797b
31	7857	58.5	-28 11	9.7	9.5	A5	3	..	15600b	81	2558	58.8	-57 13	8.4	8.6	B8	6	2,5	40105b
32	8037	58.5	-29 47	9.7	9.3	F8	3	..	22915b	82	2557	58.8	-57 54	10.2	10.3	A2	2	..	40105b
33	8138	58.5	-30 55	9.7	9.9	Ko	1	..	40082b	83	1695	58.8	-59 56	6.11	6.4	Fo	8	0,10	34089b
34	6071	58.5	-39 29	10.0	10.1	Ko	1	..	39922b	84	1589	58.8	-60 32	9.1	9.8	G5	2	..	40105b
35	6073	58.5	-39 41	10.7	10.1	Fo	1	..	39922b	85	1138	58.8	-69 19	8.0	8.0	Ao	3	..	22988b
36	5719	58.5	-41 5	9.4	9.5	A2	2	..	19157b	86	1835	58.9	+28 20	7.90	8.04	A5	4	..	38203i
37	5466	58.5	-47 28	9.4	9.2	A2	3	..	39864b	87	2198	58.9	+25 43	8.5	9.6	K2	1	..	38642i
38	2770	58.5	-56 52	6.07	7.9	Ko	9	0,10	38797b	88	2314	58.9	+8 19	8.9	9.9	Ko	1	..	13402b
39	1811	58.5	-58 8	9.1	9.8	Ko	2	..	40105b	89	2396	58.9	+1 3	9.6	10.1	F8	1	..	19341b
40	1673	58.5	-59 22	9.6	9.6	Ao	2	..	40105b	90	3066	58.9	-7 11	9.1	10.2	K2	1	..	40281b
41	1672	58.5	-59 38	8.3	8.1	B9	7	..	40105b	91	2984	58.9	-9 40	8.0	8.6	Go	6	..	18996b
42	576	58.5	-77 48	10.0	10.3	F	1	..	21453b	92	2953	58.9	-16 59	9.5	9.6	A2	2	..	40313b
43	1384	58.6	+52 50	6.15	6.21	A2	8	..	38638i	93	6129	58.9	-38 56	7.45	8.1	Ko	6	..	40276b
44	1580	58.6	+45 50	8.1	9.3	K5	2	..	38291i	94	6080	58.9	-39 58	9.6	10.3	K5	1	..	39922b
45	3044	58.6	-2 17	9.0	9.5	F8	3	..	22970b	95	3120	58.9	-52 40	8.0	8.0	B3	7	..	38797b
46	3045	58.6	-3 0	7.8	8.8	Ko	5	..	22970b	96	1816	58.9	-58 11	9.1	9.8	Ao	2	..	40105b
47	2949	58.6	-16 42	8.0	8.3	F2	7	..	40313b	97	484	59.0	+73 5	7.9	8.9	Ko	4	..	37714i
48	3089	58.6	-20 41	9.2	10.0	G5	1	..	40313b	98	2176	59.0	+23 3	7.9	8.9	Ko	3	..	37571i
49	8038	58.6	-29 26	9.2	9.9	Go	2	..	15600b	99	2169	59.0	+21 56	8.8	9.2	F5	3	..	37571i
50	6075	58.6	-39 31	10.0	10.1	G5	1	..	39922b	100	2196	59.0	+14 5	8.1	9.2	K2	4	..	37724i

THE HENRY DRAPER CATALOGUE.

87300

9^h 59^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2311	59.0	+ 3 42	6.42	6.76	F2	10	..	19341b	51	957	59.3	-70 15	7.24	7.6	F2	5	..	22988b
2	8046	59.0	-29 45	8.9	8.5	A2	4	..	22915b	52	478	59.4	+72 41	9.1	9.9	G5	2	..	37706i
3	7009	59.0	-32 45	6.76	7.8	Ko	8	..	40082b	53	596	59.4	+70 21	8.7	9.1	F5	4	..	37706i
4	6615	59.0	-33 11	9.4	9.9	Ao	3	..	40082b	54	590	59.4	+67 49	8.6	9.1	F8	2	..	38654i
5	6250	59.0	-37 46	9.4	10.1	G5	1	..	39922b	55	634	59.4	+66 48	7.9	9.1	K5	3	..	38654i
6	6082	59.0	-39 14	11.1	10.1	G5	1	..	39922b	56	769	59.4	+64 5	9.1	10.1	Ko	1	..	38654i
7	6085	59.0	-39 47	10.2	9.8	Ao	2	..	39922b	57	1573	59.4	+51 26	7.79	8.21	F5	4	..	38638i
8	1820	59.0	-58 13	9.5	10.3	G5	1	..	40105b	58	1956	59.4	+30 14	8.41	8.83	F5	2	..	38203i
9	1705	59.0	-59 41	9.5	9.5	Ao	3	..	40105b	59	3068	59.4	- 6 44	7.46	8.24	G5	7	..	40281b
10	1237	59.1	+60 45	8.7	9.8	K2	1	..	37725i	60	2838	59.4	- 8 41	8.6	8.9	Fo	5	..	19137b
11	1237	59.1	+57 59	9.8	10.6	G5	1	..	38224i	61	7165	59.4	-28 0	7.7	8.3	F8	4	..	39939b
12	1450	59.1	+51 53	7.8	7.9	A2	5	..	38638i	62	6109	59.4	-35 51	9.0	10.1	Fo	2	..	40276b
13	2288	59.1	+ 9 18	9.4	9.5	A5	2	..	13402b	63	5759	59.4	-46 9	6.27	6.6	Ao	..	0.7-	56,127
14	2608	59.1	+ 0 26	9.9	10.5	Go	1	..	19341b	64	4436	59.4	-51 34	7.9	8.0	A2	7	..	38797b
15	2985	59.1	-10 7	9.06	9.84	G5	2	..	18996b	65	2574	59.4	-57 12	9.8	10.6	G5	1	..	40105b
16	3045	59.1	-18 1	9.2	10.0	G5	2	..	40313b	66	1727	59.4	-59 40	9.6	9.6	Ao	2	..	40105b
17	8710	59.1	-24 36	10.6	10.1	F8	1	..	40303b	67	901	59.4	-71 50	7.7	8.2	F8	6	..	22988b
18	8711	59.1	-24 50	6.73	7.7	Ao	9	..	40303b	68	403	59.4	-81 6	8.66	9.5	Ko	1	..	13465b
19	7639	59.1	-26 25	7.30	8.1	Fo	6	..	39939b	69	390	59.4	-81 21	8.38	8.8	A2	5	2,3	20869b
20	7862	59.1	-28 33	7.9	8.5	G5	4	..	39939b	70	1940	59.5	+33 42	8.2	9.0	G5	1	..	38673i
21	2825	59.1	-55 23	9.6	10.0	F5	1	..	38797b	71	2173	59.5	+22 19	8.7	9.5	G5	1	..	37571i
22	2823	59.1	-55 43	8.9	8.6	A2	6	..	38797b	72	2199	59.5	+13 20	8.5	9.3	G5	2	..	37724i
23	2826	59.1	-55 46	7.7	8.2	G5	5	..	38797b	73	2341	59.5	- 2 13	9.27	10.34	K2	1	R	22970b
24	1416	59.1	-61 17	9.0	9.8	A2	3	..	40221b	74	3050	59.5	-18 7	9.5	9.5	Ao	2	..	40313b
25	1154	59.1	-66 38	9.7	9.8	A3	1	..	40074b	75	2834	59.5	-18 58	9.2	10.2	Ko	2	..	40313b
26	648	59.2	+65 48	8.5	8.9	F5	7	..	38654i	76	7917	59.5	-31 57	8.9	10.5	Ko	1	..	40082b
27	2251	59.2	+ 6 30	9.0	9.3	Fo	3	..	13402b	77	6380	59.5	-34 8	9.6	10.7	K	1	..	40082b
28	2250	59.2	+ 5 54	9.2	10.4	K5	1	..	13402b	78	6130	59.5	-44 57	8.78	9.7	K2	1	..	40189b
29	2289	59.2	- 1 13	8.5	9.0	F8	6	..	22970b	79	5486	59.5	-47 38	9.6	9.7	A5	2	..	39864b
30	3046	59.2	-17 37	8.0	8.0	Ao	6	..	40313b	80	3218	59.5	-54 4	8.3	8.8	B2	4	..	38797b
31	2832	59.2	-18 24	9.2	9.3	A2	3	..	40313b	81	3055	59.5	-54 9	9.9	10.0	A5	2	..	38797b
32	6105	59.2	-36 52	8.7	8.6	B9	5	..	40276b	82	2834	59.5	-55 14	9.74	9.4	A3	3	..	38797b
33	6252	59.2	-37 38	9.6	10.7	F2	1	..	39922b	83	2832	59.5	-55 31	9.4	9.4	Ao	3	..	38797b
34	5872	59.2	-43 21	7.7	7.9	Ko	6	..	19157b	84	2580	59.5	-57 17	9.6	9.4	B	2	..	40105b
35	4429	59.2	-52 6	10.5	9.8	A2	2	..	38408b	85	1737	59.5	-60 1	10.3	10.3	Ao	2	..	40105b
36	3209	59.2	-53 11	10.2	10.3	A3	2	..	38408b	86	280	59.6	+82 53	7.59	8.59	Ko	4	..	37465i
37	2783	59.2	-57 3	10.2	10.3	A2	1	..	40105b	87	1581	59.6	+46 8	8.6	9.6	Ko	1	..	38291i
38	1409	59.2	-62 33	9.1	10.1	Ko	2	..	40221b	88	2174	59.6	+22 27	8.3	9.3	K	2	..	37571i
39	1155	59.2	-66 26	9.7	9.8	A2	1	..	40074b	89	2429	59.6	+20 24	8.1	8.9	G5	3	..	37571i
40	2098	59.3	+38 8	8.6	8.7	A3	2	..	38241i	90	2164	59.6	+15 38	7.7	8.7	Ko	2	..	37571i
41	2279	59.3	+ 5 35	9.2	10.3	K2	1	..	13402b	91	2162	59.6	+11 7	9.0	9.3	F2	3	..	37724i
42	2789	59.3	- 4 29	9.7	10.5	G5	1	..	22970b	92	2280	59.6	+ 5 29	8.0	8.6	Go	7	..	13402b
43	3017	59.3	-14 45	8.7	9.2	F8	2	..	40247b	93	2988	59.6	-10 1	8.5	9.7	K5	2	..	18996b
44	3047	59.3	-17 37	5.78	5.78	Ao	6	0,10	5873b	94	2976	59.6	-22 5	7.8	9.2	K5	4	..	40303b
45	8716	59.3	-24 59	9.25	9.7	K5	2	..	40303b	95	8971	59.6	-23 38	8.5	9.5	Ko	3	..	40303b
46	6090	59.3	-39 24	10.9	10.4	Ko	1	..	39922b	96	6383	59.6	-34 23	8.0	9.5	Ko	4	..	40082b
47	5250	59.3	-48 50	9.2	9.2	A2	3	..	39864b	97	6112	59.6	-36 47	9.8	11.3	Ma	1	..	39922b
48	2571	59.3	-57 59	9.9	10.3	F5	1	..	40105b	98	6135	59.6	-38 48	7.00	8.1	K5	6	..	40276b
49	1724	59.3	-59 24	8.8	9.2	B9	4	..	40105b	99	6137	59.6	-39 5	10.7	9.8	F8	2	..	39922b
50	1223	59.3	-65 20	9.5	9.5	Ao	3	..	40221b	100	5711	59.6	-45 12	8.28	7.9	A2	3	..	40189b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

87400

9^h 59^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5253	59.6	-48 25	9.8	9.2	Fo	2	..	39864b	51	6628	59.9	-33 44	9.1	9.7	Fo	3	..	40082b
2	1832	59.6	-58 21	8.6	8.7	B8	4	..	40105b	52	5740	59.9	-40 28	8.7	9.5	K5	1	..	40276b
3	1831	59.6	-58 48	8.9	8.9	A2	3	..	40105b	53	5891	59.9	-42 18	9.1	8.7	B9	5	..	19157b
4	1741	59.6	-59 21	9.5	9.5	B9	3	..	40105b	54	5881	59.9	-43 17	8.8	9.2	Ko	2	..	19157b
5	1740	59.6	-59 28	8.9	9.2	Ao	4	..	40105b	55	5490	59.9	-47 40	8.87	9.2	B8	2	..	39864b
6	1602	59.6	-60 49	8.4	8.6	B3	6	5,3	40221b	56	4767	59.9	-50 35	8.6	8.7	B9	4	..	38797b
7	1423	59.6	-61 54	8.9	9.2	A2	4	..	40221b	57	3063	59.9	-54 27	8.8	9.4	B8	4	..	38797b
8	1224	59.6	-65 26	7.36	7.4	B8	8	..	40221b	58	1756	59.9	-59 21	8.4	8.6	Ao	7	..	40105b
9	579	59.6	-77 59	9.6	10.6	K	1	..	21453b	59	1610	59.9	-60 15	9.3	9.3	Ao	4	0,4	40105b
10	649	59.7	+66 9	9.8	10.8	Ko	1	..	38654i	60	1159	59.9	-66 59	9.0	9.3	Fo	2	..	40074b
11	2050	59.7	+41 31	7.60	7.88	Fo	5	..	38241i	61	1018	59.9	-68 12	9.3	10.3	Ko	1	..	40074b
12	2430	59.7	+19 55	8.35	9.13	G5	2	..	37571i	62	2102	0.0	+35 28	7.39	8.39	Ko	5	..	38241i
13	2291	59.7	-0 52	9.2	10.2	Ko	1	..	22970b	63	1991	0.0	+29 7	9.6	10.4	G5	1	..	37529i
14	2841	59.7	-8 24	9.0	10.2	K5	1	..	40281b	64	3057	0.0	-17 44	9.8	10.8	Ko	2	..	40313b
15	2835	59.7	-18 56	8.6	8.7	A2	5	..	40313b	65	2816	0.0	-22 25	9.3	10.0	Fo	1	..	40303b
16	7171	59.7	-27 53	7.29	8.1	F8	5	..	39939b	66	6142	0.0	-39 3	8.8	8.4	A2	5	..	40276b
17	5887	59.7	-42 44	9.2	9.2	G5	2	..	19157b	67	5893	0.0	-42 11	9.1	9.3	K	1	..	19157b
18	4902	59.7	-49 34	9.2	8.9	Ao	3	..	39864b	68	2850	0.0	-56 3	9.4	9.4	Ao	2	..	38797b
19	1839	59.7	-58 8	8.4	8.6	F5	6	..	40105b	69	2792	0.0	-56 43	9.5	10.3	G5	2	..	40105b
20	902	59.7	-71 34	9.4	9.8	F5	2	..	39946b	70	1848	0.0	-58 23	8.9	9.2	Ao	3	..	40105b
21	1430	59.8	+56 17	7.30	8.30	Ko	5	..	38638i	71	1768	0.0	-59 51	9.6	9.6	B9	3	..	40105b
22	2101	59.8	+35 9	8.02	9.02	Ko	2	..	38241i	72	1435	0.0	-61 32	8.9	8.9	Ao	4	..	40221b
23	2316	59.8	+8 29	7.24	7.66	F5	8	..	37724i	73	2079	0.1	+34 44	8.37	9.15	G5	3	..	38241i
24	2787	59.8	-11 15	7.8	8.8	Ko	5	..	18996b	74	2817	0.1	-22 27	9.3	10.3	G5	1	..	40303b
25	3055	59.8	-17 27	7.9	8.0	A2	7	..	40313b	75	8980	0.1	-23 32	9.3	10.3	Ko	1	..	40303b
26	8974	59.8	-23 26	10.2	10.3	F2	1	..	40303b	76	7026	0.1	-32 31	8.8	9.6	Go	2	..	40082b
27	8973	59.8	-23 48	5.80	6.7	Fo	..	0,10	56,127	77	6100	0.1	-39 29	6.44	8.0	Ko	8	..	40276b
28	7920	59.8	-31 15	9.7	9.4	F2	2	..	40082b	78	5257	0.1	-48 8	8.9	8.6	Ko	3	..	39864b
29	7021	59.8	-32 11	9.3	9.4	F5	2	..	40082b	79	1771	0.1	-59 28	8.5	9.3	Ko	3	..	40105b
30	6115	59.8	-36 6	9.0	9.8	F5	3	..	40276b	80	375	0.2	+76 18	8.6	9.0	F5	3	..	37714i
31	5738	59.8	-40 29	9.0	8.6	F5	6	5,5	19157b	81	1165	0.2	+61 24	7.38	8.56	K5	5	3,4	37725i
32	5717	59.8	-45 16	9.38	8.9	Ao	1	..	40189b	82	1431	0.2	+56 8	8.1	8.4	F2	5	..	38638i
33	3143	59.8	-52 34	8.7	8.6	F5	3	..	38797b	83	1364	0.2	+55 18	8.8	10.0	K5	1	..	38638i
34	2789	59.8	-56 23	9.7	9.7	Ao	3	0,3	38797b	84	2052	0.2	+41 35	8.2	9.0	G5	2	E	38291i
35	2584	59.8	-57 37	8.7	9.7	Go	4	..	40105b	85	2054	0.2	+41 24	8.1	8.9	G5	1	E	38291i
36	1752	59.8	-59 41	6.02	6.7	A5	7	2,10	34089b	86	3052	0.2	-3 2	7.54	8.72	K5	6	..	22970b
37	1608	59.8	-60 10	9.6	9.6	Ao	3	..	40105b	87	2788	0.2	-11 29	8.7	9.7	K	1	..	18996b
38	1431	59.8	-61 40	6.44	8.7	K5	3	..	34089b	88	7179	0.2	-27 42	6.87	7.9	B9	8	..	39939b
39	1185	59.8	-67 28	9.0	9.5	F8	2	..	40074b	89	7878	0.2	-29 1	9.6	10.1	F5	1	..	15600b
40	468	59.8	-79 7	10.3	10.3	A	1	..	21453b	90	6145	0.2	-38 46	10.1	9.8	Ko	1	..	40276b
41	598	59.9	+70 25	7.90	8.18	Fo	6	..	37706i	91	5896	0.2	-42 12	9.6	9.0	Ao	3	..	19157b
42	2286	59.9	+40 4	7.17	7.31	A5	7	..	38241i	92	2853	0.2	-55 14	8.74	8.8	A3	4	..	38797b
43	2095	59.9	+31 35	7.86	7.94	A3	3	..	38203i	93	2798	0.2	-57 5	8.9	9.4	Ao	6	0,4	38797b
44	1990	59.9	+29 13	8.7	9.7	Ko	2	..	37529i	94	2596	0.2	-57 37	10.2	10.0	B	1	..	40105b
45	1844	59.9	+26 58	8.8	9.8	Ko	1	..	37529i	95	1162	0.2	-66 32	9.8	9.8	A	1	..	40074b
46	2289	59.9	+9 8	8.9	9.5	Go	3	..	37724i	96	1020	0.2	-68 50	8.5	8.6	A2	4	..	40297b
47	2610	59.9	+0 0	8.5	8.8	Fo	6	..	19341b	97	610	0.2	-76 14	9.4	10.4	K	1	..	21453b
48	2791	59.9	-4 49	8.8	9.3	F8	3	..	22970b	98	470	0.2	-79 29	9.8	10.2	F5	2	..	21453b
49	7172	59.9	-27 15	8.3	10.0	K2	1	..	39939b	99	1952	0.3	+44 3	9.4	9.7	F	1	..	38291i
50	7023	59.9	-32 50	9.0	9.9	Ao	1	..	40082b	100	2077	0.3	+16 14	6.28	6.56	Fo	10	..	37571i

THE HENRY DRAPER CATALOGUE.

87500

10^h 0^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2163	0.3	+11 24	8.5	9.5	Ko	3	..	37724i	51	2287	0.6	+ 3 53	8.0	8.0	Ao	6	..	19341b
2	3053	0.3	- 2 53	7.74	8.81	K2	6	..	22970b	52	3074	0.6	-12 29	8.7	9.1	F5	3	..	18996b
3	2789	0.3	-11 41	8.5	9.7	K5	1	..	18996b	53	2959	0.6	-17 9	9.8	11.0	K5	1	..	40313b
4	3073	0.3	-12 35	4.72	4.67	B8	..	R	56,87	54	3059	0.6	-17 27	10.2	11.3	K2	1	..	40313b
5	3092	0.3	-21 9	8.5	9.1	Ao	4	..	40313b	55	3094	0.6	-20 52	8.6	10.0	Mb	1	..	40313b
6	3236	0.3	-54 3	9.7	10.0	Fo	1	..	38797b	56	7183	0.6	-27 42	6.89	7.5	Ao	8	..	39939b
7	1784	0.3	-59 43	9.2	9.2	Ao	5	..	40105b	57	7889	0.6	-28 59	9.8	10.3	Ko	1	..	15600b
8	653	0.3	-74 17	9.7	10.1	F5	2	..	21453b	58	8070	0.6	-29 45	9.3	9.3	Go	3	..	40082b
9	635	0.4	+67 20	7.9	8.5	Go	5	..	38654i	59	6393	0.6	-34 40	7.7	9.5	K5	4	..	40082b
10	1238	0.4	+60 15	8.3	9.1	G5	4	..	37725i	60	6151	0.6	-38 46	10.5	10.7	K2	1	..	39922b
11	1286	0.4	+59 37	9.4	10.4	Ko	1	..	38224i	61	6105	0.6	-39 15	9.5	9.5	F2	2	..	40276b
12	2097	0.4	+31 42	8.4	9.2	G5	1	..	38203i	62	5904	0.6	-42 35	9.6	9.5	G5	1	..	19157b
13	2987	0.4	-10 43	8.1	8.6	F8	6	..	18996b	63	2602	0.6	-58 3	10.0	10.0	Ao	2	..	40105b
14	2957	0.4	-16 28	8.3	9.1	G5	6	..	40313b	64	1856	0.6	-59 0	8.3	8.3	B9	6	..	40105b
15	2818	0.4	-22 30	9.2	10.3	G5	1	..	40303b	65	1800	0.6	-59 22	9.3	9.3	B9	2	..	40105b
16	7883	0.4	-28 58	10.7	10.5	Ao	1	..	15600b	66	1802	0.6	-59 34	8.7	9.8	Ko	3	..	40105b
17	8066	0.4	-30 4	9.35	9.4	F8	2	..	40082b	67	1806	0.6	-59 38	9.6	9.6	A	3	..	40105b
18	6637	0.4	-33 34	10.5	10.5	A	1	..	40082b	68	1801	0.6	-60 6	8.9	9.2	A2	4	..	40105b
19	6638	0.4	-34 6	8.5	9.4	F5	3	..	40082b	69	1418	0.6	-62 52	8.5	9.5	Ko	3	..	40221b
20	6126	0.4	-35 42	9.7	10.4	Ao	1	..	40082b	70	650	0.7	+66 30	7.83	9.01	K5	4	..	38654i
21	6148	0.4	-38 49	9.1	9.6	Ko	1	..	40276b	71	2298	0.7	+18 56	8.3	8.4	A3	3	..	37571i
22	5750	0.4	-40 24	10.5	10.1	A3	2	..	40276b	72	2794	0.7	-12 2	8.7	9.0	Fo	3	..	18996b
23	5574	0.4	-41 56	11.0	9.6	Ao	2	..	19157b	73	3095	0.7	-20 36	9.2	9.7	F8	2	..	40313b
24	3155	0.4	-52 27	8.5	8.6	A	5	R	38797b	74	3096	0.7	-20 59	9.3	10.0	Ko	1	..	40313b
25	2860	0.4	-55 42	8.3	9.1	Ko	2	..	38797b	75	2822	0.7	-22 13	8.7	10.3	Ko	2	..	40303b
26	1791	0.4	-59 43	8.4	8.7	G5	6	..	40105b	76	7931	0.7	-31 39	8.4	9.0	A2	4	..	40082b
27	1440	0.4	-61 26	8.4	8.9	B9	3	..	40221b	77	6153	0.7	-38 38	8.8	9.8	K2	2	..	40276b
28	1415	0.4	-63 2	9.3	9.3	B9	2	..	40221b	78	5894	0.7	-43 44	10.0	9.1	A2	3	..	19157b
29	1228	0.4	-65 12	8.68	9.8	K5	1	..	40221b	79	6156	0.7	-44 21	10.2	9.7	Fo	1	..	40189b
30	1714	0.5	+49 50	8.14	9.14	Ko	2	..	38291i	80	4447	0.7	-51 19	7.8	7.6	B9	9	..	38797b
31	2288	0.5	+40 0	7.62	8.62	Ko	3	..	38241i	81	1809	0.7	-59 40	9.5	9.5	Ao	4	..	40105b
32	2098	0.5	+31 13	8.7	9.7	Ko	1	..	37529i	82	479	0.8	+72 10	7.65	8.65	Ko	5	2,5	37706i
33	2177	0.5	+24 19	8.3	9.4	K2	1	..	38642i	83	2086	0.8	+42 47	8.2	9.3	K2	2	..	38291i
34	2150	0.5	+21 3	9.3	10.3	K	2	..	37571i	84	3075	0.8	-13 5	9.1	10.1	Ko	2	..	40247b
35	2843	0.5	- 9 3	8.3	8.4	A2	7	..	40281b	85	8740	0.8	-24 50	9.6	9.7	Fo	3	..	40303b
36	2990	0.5	- 9 59	8.7	9.2	F8	4	..	18996b	86	7745	0.8	-25 12	9.25	9.5	Ko	3	..	40303b
37	5576	0.5	-41 44	7.9	8.7	K5	3	..	19157b	87	8163	0.8	-30 42	9.3	9.4	F5	3	..	40082b
38	6154	0.5	-44 12	8.9	9.4	K2	2	..	19157b	88	6129	0.8	-36 11	7.9	8.3	A2	6	..	40276b
39	5502	0.5	-47 25	9.1	9.7	K5	1	..	39864b	89	6111	0.8	-39 30	10.8	10.5	K2	1	..	39922b
40	5500	0.5	-47 57	7.1	7.4	G5	7	..	39864b	90	2809	0.8	-56 51	9.1	10.0	Ko	2	2,2	40105b
41	2861	0.5	-55 25	8.2	8.2	B8	8	..	38797b	91	2606	0.8	-57 13	10.3	10.3	Ao	1	..	40105b
42	2601	0.5	-57 17	9.9	10.0	A2	3	3,2	38797b	92	1860	0.8	-58 53	8.9	8.9	B5	4	..	40105b
43	1441	0.5	-61 24	6.34	6.4	B8	8	..	34089b	93	1813	0.8	-59 47	9.7	9.8	A2	2	..	40105b
44	1416	0.5	-62 42	9.2	9.2	Ao	3	..	40221b	94	1620	0.8	-60 49	8.6	9.8	K5	1	..	40221b
45	1142	0.5	-69 8	9.2	10.2	K	1	..	40074b	95	1161	0.8	-64 17	9.2	9.5	F2	2	..	40221b
46	674	0.5	-73 33	9.2	9.3	A2	4	..	21453b	96	903	0.8	-72 7	10.0	10.0	Ao	1	..	39946b
47	1453	0.6	+52 39	9.7	10.7	Ko	1	..	38638i	97	496	0.8	-78 42	9.5	9.8	F2	4	..	21453b
48	1582	0.6	+46 23	8.7	9.5	G5	2	..	38291i	98	558	0.9	+68 56	9.0	9.8	G5	2	..	37706i
49	1959	0.6	+30 23	8.8	9.2	F5	3	..	37529i	99	1249	0.9	+57 45	9.0	9.8	G5	2	..	37725i
50	2179	0.6	+22 0	7.04	8.04	Ko	5	..	37571i	100	1798	0.9	+45 34	7.49	7.83	F2	7	..	38291i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

87600

10^h 0^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2288	m. 0.9	° 4 3	8.4	8.7	Fo	5	..	19341b	51	5510	m. 1.2	° -47 31	10.2	9.4	Ao	2	..	39864b
2	2798	0.9	- 4 56	9.3	9.3	Ao	3	0,2	40281b	52	4791	1.2	-50 49	6.62	6.9	B9	10	..	38797b
3	7185	0.9	-27 14	9.3	10.3	Ko	2	..	15600b	53	3089	1.2	-54 28	7.9	8.0	B8	6	..	38797b
4	7037	0.9	-32 16	8.8	9.9	K5	2	..	40082b	54	1279	1.2	-63 57	9.2	9.6	F5	2	..	40221b
5	6644	0.9	-33 23	9.5	9.4	F8	2	..	40082b	55	1999	1.3	+28 59	9.6	9.9	F2	2	..	37529i
6	6130	0.9	-35 54	6.28	7.3	Ko	9	..	40276b	56	2291	1.3	+ 3 59	8.0	8.4	F5	7	..	19341b
7	5581	0.9	-41 50	11.9	9.8	A	2	..	39922b	57	7750	1.3	-25 21	9.5	9.7	F8	2	..	40303b
8	5897	0.9	-43 21	10.5	10.2	Ao	1	..	19157b	58	7752	1.3	-25 45	8.8	9.5	F2	3	..	39939b
9	5507	0.9	-47 15	10.5	10.0	A2	1	..	39864b	59	7663	1.3	-26 47	7.7	8.9	K2	4	..	39939b
10	5506	0.9	-47 30	9.4	10.5	K2	1	..	39864b	60	8169	1.3	-30 24	6.74	7.8	Ko	8	..	40082b
11	4449	0.9	-51 34	10.0	9.3	F8	2	..	38797b	61	6132	1.3	-36 8	9.5	10.1	F5	3	..	40276b
12	1816	0.9	-59 23	9.1	8.9	B9	3	..	40105b	62	6283	1.3	-37 18	9.7	10.7	G5	1	..	39922b
13	1818	0.9	-59 43	9.3	10.3	Ko	1	..	40105b	63	1825	1.3	-59 39	9.1	9.8	Ao	2	..	40105b
14	1623	0.9	-60 36	8.5	9.5	Ma	3	..	40221b	64	1239	1.4	+60 28	9.6	10.1	F8	2	..	37725i
15	1622	0.9	-61 2	9.2	9.5	Fo	2	..	40221b	65	1351	1.4	+54 29	9.4	10.4	Ko	1	..	38665i
16	497	0.9	-78 41	9.9	10.2	F	1	..	21453b	66	2313	1.4	+38 47	8.0	9.0	Ko	3	..	38241i
17	327	0.9	-83 11	9.1	9.2	A3	3	..	20869b	67	1961	1.4	+30 1	7.36	7.78	F5	5	..	38203i
18	559	1.0	+69 11	9.7	9.8	A3	2	..	37706i	68	2166	1.4	+11 40	8.7	9.9	K5	2	..	37724i
19	750	1.0	+65 2	9.0	9.1	A2	2	..	38654i	69	2235	1.4	+ 7 23	8.7	9.8	K2	4	..	13402b
20	1583	1.0	+46 35	8.5	9.3	G5	1	..	38291i	70	2258	1.4	+ 6 1	9.7	10.5	G5	2	..	13402b
21	2103	1.0	+38 31	8.2	8.5	F2	5	..	38241i	71	2846	1.4	- 8 27	9.6	9.7	A2	1	..	40281b
22	2106	1.0	+34 51	8.92	9.70	G5	1	..	38241i	72	3101	1.4	-20 27	7.48	9.1	K5	4	..	40313b
23	2314	1.0	+ 2 55	8.3	9.1	G5	6	..	19341b	73	6651	1.4	-33 41	9.1	10.0	G	1	..	40082b
24	2796	1.0	-11 32	8.9	9.9	K	1	..	18996b	74	6134	1.4	-35 29	8.6	9.8	Ko	3	..	40082b
25	3097	1.0	-21 6	9.3	9.5	F8	2	..	40313b	75	6116	1.4	-39 40	9.7	10.1	G5	2	..	39922b
26	7039	1.0	-32 37	10.1	9.9	A3	1	..	40082b	76	5513	1.4	-47 18	8.5	8.2	F5	6	..	39864b
27	5585	1.0	-41 41	6.56	8.0	Ko	9	..	19157b	77	2874	1.4	-55 19	8.6	8.6	Ao	5	..	38797b
28	5582	1.0	-41 49	9.1	9.8	K5	1	..	39922b	78	1871	1.4	-58 11	9.2	9.2	Ao	3	..	40105b
29	5898	1.0	-44 6	8.8	9.4	Ko	2	..	19157b	79	1802	1.5	+45 38	8.3	8.6	Fo	3	..	38291i
30	1864	1.0	-58 44	8.5	8.6	B9	5	..	40105b	80	2000	1.5	+29 44	8.11	8.89	G5	3	..	38203i
31	1447	1.0	-61 45	9.0	8.9	Fo	4	..	40221b	81	2180	1.5	+24 5	9.0	10.0	Ko	1	..	38642i
32	337	1.1	+77 57	8.7	8.7	Ao	4	0,3	37714i	82	2259	1.5	+ 6 6	6.29	7.07	G5	8	..	13402b
33	402	1.1	+74 54	9.12	9.68	G	1	..	37714i	83	2344	1.5	- 1 20	9.3	10.3	Ko	1	..	22970b
34	1166	1.1	+61 26	9.1	10.1	Ko	2	5,2	37725i	84	9007	1.5	-23 28	10.3	10.4	Ko	1	..	40303b
35	2319	1.1	+ 8 26	8.5	8.9	F5	4	..	37724i	85	7899	1.5	-28 38	7.30	8.5	Ko	4	..	39939b
36	2908	1.1	-20 4	8.63	9.7	Ko	2	..	40313b	86	8175	1.5	-30 43	9.2	10.0	K5	1	..	40082b
37	9001	1.1	-23 41	8.3	8.8	Ao	5	..	40303b	87	6135	1.5	-35 18	8.8	10.1	K5	2	..	40082b
38	7040	1.1	-32 54	6.94	7.6	Fo	7	..	40082b	88	5593	1.5	-41 28	8.6	8.6	F8	4	..	19157b
39	6405	1.1	-34 24	6.64	7.5	Ko	7	..	13116b	89	3186	1.5	-53 0	9.0	8.9	A3	4	..	38797b
40	5735	1.1	-45 24	7.24	7.9	Ko	5	..	40189b	90	3272	1.5	-53 11	8.8	10.0	K2	2	..	38797b
41	5785	1.1	-46 27	7.7	8.3	Ko	3	..	13040b	91	2616	1.5	-57 45	10.0	10.3	Fo	2	..	40105b
42	4451	1.1	-51 32	7.4	8.6	Ko	5	..	38797b	92	904	1.5	-72 3	9.8	9.8	Ao	2	..	39946b
43	1865	1.1	-58 11	9.1	9.5	Bp	1	R	40105b	93	655	1.5	-74 42	9.2	10.4	K5	2	..	21453b
44	1166	1.1	-64 15	9.4	9.5	A2	4	..	40221b	94	1239	1.6	+58 45	9.1	10.2	K2	1	..	37725i
45	1387	1.2	+53 42	8.1	8.1	Ao	5	..	38638i	95	1990	1.6	+43 31	9.1	9.9	G5	1	..	38291i
46	2317	1.2	+18 23	7.9	8.5	Go	5	..	37571i	96	2110	1.6	+35 44	4.47	4.61	A5	..	5,10	56,87
47	2206	1.2	+13 17	7.37	7.51	A5	8	..	37724i	97	2963	1.6	-16 45	10.5	10.6	A2	1	..	40313b
48	2315	1.2	+ 3 19	9.3	9.8	F8	3	..	19341b	98	2877	1.6	-55 12	9.98	10.0	F8	1	..	38797b
49	2288	1.2	+ 2 31	8.9	9.4	F8	5	..	19341b	99	2876	1.6	-55 17	8.54	9.1	Ko	2	..	38797b
50	2294	1.2	- 1 0	9.3	10.4	K2	1	..	22970b	100	2825	1.6	-56 24	6.88	7.6	Fo	8	..	38797b

THE HENRY DRAPER CATALOGUE.

87700

10^h 1^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1455	1.6	-61 11	9.6	9.6	A	1	E	40221b	51	1842	1.9	-59 34	9.1	9.2	Ao	4	..	40105b
2	1426	1.6	-62 46	9.2	9.2	B ₉	4	..	40221b	52	1843	1.9	-59 45	9.6	9.6	Ao	2	..	40105b
3	561	1.7	+69 10	7.26	8.26	Ko	6	0,4	37706i	53	1636	1.9	-60 13	8.9	9.5	F ₅	3	..	40105b
4	1388	1.7	+53 34	8.7	8.8	A ₃	3	..	38638i	54	2992	2.0	-11 3	9.2	10.0	G ₅	1	..	18996b
5	2314	1.7	+39 8	8.2	9.0	G ₅	2	..	38241i	55	2967	2.0	-16 19	8.8	9.3	F ₈	3	..	40313b
6	2346	1.7	-1 54	8.5	8.8	F ₂	6	..	22970b	56	2830	2.0	-22 39	7.61	8.0	F ₅	8	..	40303b
7	2991	1.7	-10 36	9.1	10.1	Ko	1	..	18996b	57	8762	2.0	-24 50	9.0	9.8	Ko	3	..	40303b
8	7947	1.7	-32 5	11.5	10.0	Fo	2	..	40082b	58	6289	2.0	-38 1	9.7	10.7	F ₈	1	..	39922b
9	5909	1.7	-43 29	10.2	9.7	Ao	2	..	19157b	59	6180	2.0	-44 39	9.4	9.4	A ₅	2	..	40189b
10	4460	1.7	-51 8	9.6	9.3	A ₂	3	..	38797b	60	4466	2.0	-51 55	8.2	8.3	Ao	6	..	38797b
11	1878	1.7	-58 12	8.7	10.0	Ko	2	..	40105b	61	1458	2.0	-61 11	7.6	9.2	K ₅	4	..	40221b
12	1840	1.7	-59 57	10.0	10.0	Ao	2	..	40105b	62	1170	2.0	-64 27	9.8	9.8	Ko	1	..	40221b
13	1168	1.7	-64 9	6.8	6.8	Ao	6	..	34089b	63	2613	2.1	+0 44	9.29	9.79	F ₈	3	..	19341b
14	1234	1.7	-66 5	9.5	9.5	Ao	2	..	40221b	64	2802	2.1	-5 5	7.90	8.90	Ko	5	2,5	40281b
15	395	1.8	+76 50	9.0	9.6	Go	3	..	37714i	65	2989	2.1	-5 53	8.9	10.1	K ₅	2	..	40281b
16	1240	1.8	+60 40	8.9	9.7	G ₅	1	..	37725i	66	2848	2.1	-9 0	9.1	10.2	K ₂	1	..	40281b
17	1848	1.8	+27 16	7.98	8.48	F ₈	3	..	38203i	67	3083	2.1	-12 24	9.1	9.9	G ₅	2	..	18996b
18	2153	1.8	+21 39	8.6	9.6	Ko	2	..	37571i	68	2969	2.1	-16 57	6.63	6.91	Fo	8	..	40313b
19	2347	1.8	-1 14	8.4	9.0	Go	5	..	22970b	69	3064	2.1	-17 30	9.8	10.4	Go	2	..	40313b
20	2803	1.8	-11 59	8.2	8.6	F ₅	5	..	18996b	70	7903	2.1	-28 38	8.2	9.1	Ko	2	..	39939b
21	2979	1.8	-15 51	8.1	8.1	Ao	7	..	40313b	71	8185	2.1	-30 40	9.2	10.5	K ₅	1	..	40082b
22	2978	1.8	-16 1	9.6	9.9	Fo	3	..	40313b	72	6179	2.1	-38 12	9.7	11.2	Mb	1	..	39922b
23	3062	1.8	-17 38	10.2	10.7	F ₈	1	..	40313b	73	6181	2.1	-38 43	10.8	10.4	A ₂	1	..	39922b
24	3102	1.8	-20 48	8.10	8.4	A ₅	4	..	40313b	74	2320	2.2	+18 14	9.3	10.1	G ₅	2	..	37571i
25	8759	1.8	-24 15	9.3	10.0	F ₈	4	..	40303b	75	2080	2.2	+15 47	8.6	9.1	F ₈	3	..	37571i
26	7756	1.8	-26 6	7.8	8.5	Ko	5	..	39939b	76	2167	2.2	+15 40	7.17	7.67	F ₈	6	2,7	37571i
27	7672	1.8	-26 56	9.6	9.7	Ao	2	..	39939b	77	2208	2.2	+13 31	7.9	8.4	F ₈	4	..	37724i
28	7204	1.8	-27 39	9.2	10.0	F ₈	1	..	39939b	78	2960	2.2	-7 33	9.6	10.0	F ₅	1	..	40281b
29	6172	1.8	-38 26	11.0	10.6	Ao	1	..	39922b	79	2994	2.2	-10 50	8.8	9.8	Ko	1	..	18996b
30	6121	1.8	-39 35	8.5	9.2	F ₅	4	..	40276b	80	3065	2.2	-17 35	9.6	10.2	Go	1	..	40313b
31	5775	1.8	-40 22	8.1	8.9	Ko	5	0,3	40276b	81	2915	2.2	-19 19	9.1	10.0	G ₅	2	..	40313b
32	3193	1.8	-52 8	8.9	9.6	Ma	1	..	38797b	82	6425	2.2	-34 42	8.3	8.3	B ₉	5	..	13116b
33	1632	1.8	-61 4	9.8	9.8	A	2	E	40221b	83	5806	2.2	-46 53	5.22	6.6	Ko	..	..	56,127
34	770	1.9	+64 26	6.75	7.93	K ₅	6	..	38654i	84	5286	2.2	-48 37	9.0	8.9	Ao	3	..	13040b
35	1365	1.9	+55 38	8.7	9.8	K ₂	1	..	38638i	85	2631	2.2	-57 44	10.3	10.3	Ao	1	..	40105b
36	1841	1.9	+28 33	8.8	9.2	F ₅	1	..	37529i	86	1144	2.2	-69 33	9.4	9.7	F	1	..	40074b
37	2171	1.9	+17 15	3.58	3.58	Aop	..	R	6581c	87	146	2.3	+85 56	9.1	9.1	Ao	2	..	37546i
38	2302	1.9	+9 29	10.0	10.1	A ₂	1	..	13402b	88	2260	2.3	+6 33	9.3	10.5	K ₅	1	..	13402b
39	2301	1.9	+9 15	8.9	9.4	F ₈	4	..	37724i	89	2614	2.3	+0 13	9.3	10.3	Ko	4	..	19341b
40	2292	1.9	+4 10	9.0	10.0	Ko	2	..	19341b	90	3066	2.3	-17 55	9.8	11.0	K ₅	1	..	40313b
41	2401	1.9	+1 25	9.3	10.3	Ko	2	..	19341b	91	2984	2.3	-22 1	9.3	10.0	Go	1	..	40303b
42	3067	1.9	-2 48	7.6	7.6	Ao	5	0,9	38242i	92	2832	2.3	-23 3	8.7	9.1	Fo	4	..	40303b
43	2844	1.9	-18 49	8.5	9.3	G ₅	4	..	40313b	93	8765	2.3	-24 13	7.16	7.8	F ₈	8	..	40303b
44	7901	1.9	-28 9	8.2	9.4	K ₂	2	..	39939b	94	8092	2.3	-29 28	8.6	9.6	Go	2	..	39939b
45	8085	1.9	-29 38	8.3	8.8	F ₈	3	..	40082b	95	7956	2.3	-31 16	9.3	9.6	F ₂	3	..	40082b
46	8182	1.9	-31 3	8.8	10.5	K ₂	1	..	40082b	96	6657	2.3	-34 3	9.4	10.5	F ₅	1	..	40082b
47	6419	1.9	-34 32	10.1	10.7	Ko	1	..	40082b	97	6429	2.3	-34 56	9.5	10.7	F ₅	1	..	40082b
48	6144	1.9	-35 54	8.1	8.9	Ko	5	..	40276b	98	6292	2.3	-37 44	9.9	10.1	A ₂	2	..	39922b
49	5598	1.9	-42 2	7.7	7.6	F ₂	7	0,8	40276b	99	6130	2.3	-39 56	11.0	10.7	Ao	1	..	39922b
50	3101	1.9	-54 12	9.6	10.0	F ₅	1	..	38797b	100	3290	2.3	-54 6	7.6	7.9	B ₅	7	..	38797b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

87800

10^h 2^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1850	2.3	-59 25	8.9	9.2	B9	4	..	40105b	51	487	2.7	+73 31	8.9	9.2	F2	3	..	37714i
2	1429	2.3	-62 22	7.9	8.9	Ko	6	..	40221b	52	1577	2.7	+51 20	7.64	7.70	A2	6	..	38638i
3	1024	2.3	-68 52	9.4	9.4	Ao	3	..	40297b	53	2304	2.7	+ 8 59	9.7	10.2	F8	1	..	13402b
4	1852	2.4	+27 16	8.2	9.2	Ko	2	..	38203i	54	2404	2.7	+ 1 11	8.9	9.3	F5	6	..	19341b
5	2304	2.4	+19 1	7.8	8.8	Ko	3	..	37571i	55	3078	2.7	- 7 8	6.86	8.21	Ma	5	..	40281b
6	2403	2.4	+ 1 24	6.99	8.34	Ma	8	..	19341b	56	2983	2.7	-15 57	9.3	10.7	Ma	1	..	40313b
7	2961	2.4	- 7 14	7.50	7.56	A2	8	..	40281b	57	6298	2.7	-37 56	10.5	10.7	Fo	1	..	39922b
8	2974	2.4	-16 39	5.87	6.94	K2	8	0,9	40247b	58	4475	2.7	-51 58	9.4	9.2	B9	3	..	38797b
9	2973	2.4	-17 0	8.1	8.4	F2	5	..	40313b	59	3214	2.7	-52 59	8.2	8.3	A5	5	..	38797b
10	3104	2.4	-20 46	6.74	7.2	F2	8	..	40313b	60	2643	2.7	-57 24	8.7	8.2	Ao	6	0,5	38797b
11	7959	2.4	-31 31	9.5	10.0	K2	1	..	40082b	61	1650	2.7	-60 29	9.3	9.3	Ao	4	..	40105b
12	6189	2.4	-38 44	11.5	10.4	A2	2	..	39922b	62	1237	2.7	-65 40	8.6	8.9	F2	4	..	40221b
13	5921	2.4	-43 27	8.5	8.8	F5	4	..	19157b	63	657	2.7	-74 16	9.8	9.9	A5	3	..	21453b
14	5292	2.4	-48 10	9.1	8.7	Ao	3	..	13040b	64	753	2.8	+65 45	9.9	10.0	A5	2	..	38654i
15	4806	2.4	-50 23	8.5	8.9	K5	3	..	38797b	65	2100	2.8	+31 6	8.7	9.2	F8	3	0,4-	37529i
16	4471	2.4	-51 42	6.76	8.0	Ko	..	5,7 R	56,127	66	2203	2.8	+24 48	7.66	7.94	Fo	5	..	37571i
17	2633	2.4	-57 10	8.7	9.4	Ao	4	0,4	38797b	67	2305	2.8	+19 15	8.3	9.1	G5	2	..	37571i
18	1853	2.4	-59 31	9.5	9.5	Ao	2	..	40105b	68	2854	2.8	- 8 48	9.2	10.2	Ko	2	..	40281b
19	1177	2.4	-64 11	9.2	9.5	Fo	2	..	40221b	69	3036	2.8	-13 40	8.8	8.9	A2	3	..	40247b
20	962	2.4	-70 28	9.5	9.5	Ao	3	0,2	39946b	70	2987	2.8	-22 0	7.32	8.5	Ma	7	..	40303b
21	2031	2.5	+36 46	9.3	10.1	G5	1	..	38241i	71	8775	2.8	-24 26	8.6	9.2	K5	3	..	40303b
22	1982	2.5	+32 6	6.18	6.60	F5	7	..	38203i	72	6438	2.8	-34 23	9.5	10.4	K2	2	..	40082b
23	2262	2.5	+ 6 47	8.5	8.6	A5	6	5,4	13402b	73	6158	2.8	-35 15	9.48	10.4	Ko	2	..	40082b
24	2290	2.5	+ 2 23	9.3	9.8	F8	1	..	19341b	74	6147	2.8	-36 13	8.5	9.8	K2	2	..	40276b
25	2851	2.5	- 8 51	9.2	9.7	F8	3	..	40281b	75	6194	2.8	-38 14	8.3	10.4	K5	2	..	40276b
26	2999	2.5	- 9 26	9.8	9.9	A2	1	..	40281b	76	6195	2.8	-38 52	10.1	11.2	K2	1	..	39922b
27	3029	2.5	-14 58	7.86	8.14	Fo	6	..	40313b	77	..	2.8	-39 57	Neb.	Neb.	Pd	..	R	76,22
28	7907	2.5	-28 23	8.2	9.1	K2	3	..	39939b	78	5792	2.8	-40 12	8.64	8.3	A5	6	0,5	40276b
29	6190	2.5	-38 37	9.2	9.8	Fo	3	..	40276b	79	2846	2.8	-56 48	10.2	10.3	A3	2	..	40105b
30	2839	2.5	-56 11	8.9	9.4	Ao	3	..	38797b	80	2651	2.8	-57 46	9.1	10.0	G5	1	..	40105b
31	1896	2.5	-58 38	8.5	10.3	K2	1	..	40105b	81	1861	2.8	-59 15	10.1	10.1	Ao	3	..	40105b
32	1855	2.5	-59 37	9.1	9.5	B9	5	..	40105b	82	1654	2.8	-60 23	9.5	9.5	B9	2	..	40105b
33	1854	2.5	-59 49	8.9	9.8	Ko	3	..	40105b	83	2089	2.9	+34 44	7.62	8.62	Ko	3	..	38241i
34	772	2.6	+64 14	7.39	8.39	Ko	6	..	38654i	84	2147	2.9	+12 29	7.64	8.20	G	..	R	56,237
35	1391	2.6	+53 32	8.1	9.1	Ko	3	..	38638i	85	2294	2.9	+ 3 49	9.3	10.1	G5	2	..	19341b
36	2088	2.6	+34 0	7.50	8.28	G5	3	..	38241i	86	2291	2.9	+ 2 8	10.0	10.8	G5	1	..	19341b
37	2112	2.6	+10 30	4.58	5.65	K2	..	0, R	56,87	87	2615	2.9	+ 0 7	4.50	4.50	Ao	..	0,1	56,87
38	2991	2.6	- 5 57	7.6	8.2	Go	7	..	40281b	88	2352	2.9	- 2 3	8.6	9.8	K5	5	3,3	22970b
39	3085	2.6	-12 44	9.3	10.3	Ko	1	..	40247b	89	2995	2.9	-10 33	8.2	9.2	Ko	3	..	40281b
40	2918	2.6	-19 13	7.30	7.7	Ao	8	..	40313b	90	3032	2.9	-14 37	9.1	9.2	A2	3	..	40313b
41	7213	2.6	-27 49	9.2	10.0	K2	1	..	39939b	91	7692	2.9	-26 39	9.0	9.5	K2	2	..	39939b
42	5790	2.6	-40 24	8.8	9.2	Ao	5	0,3	40276b	92	6137	2.9	-39 57	9.5	9.5	A	2	..	40276b
43	6191	2.6	-44 53	7.7	8.2	G5	4	..	40189b	93	5614	2.9	-41 49	8.8	8.9	Fo	3	2,3	40276b
44	4473	2.6	-51 34	8.6	9.2	G5	2	..	38797b	94	3304	2.9	-53 12	7.9	8.2	Ko	4	..	38797b
45	3297	2.6	-53 34	8.7	8.3	Ao	4	..	38797b	95	1862	2.9	-59 29	9.0	10.0	Ko	1	..	40105b
46	1646	2.6	-60 41	7.3	8.9	K5	4	..	38749b	96	1282	2.9	-63 21	7.2	8.0	G5	3	..	34089b
47	1281	2.6	-63 9	9.5	9.5	B9	2	..	40221b	97	529	3.0	+71 21	7.59	8.59	Ko	7	0,5	37706i
48	1171	2.6	-66 14	8.4	9.5	K2	2	..	40221b	98	1434	3.0	+55 47	8.1	9.3	K5	2	..	38638i
49	1172	2.6	-66 46	8.7	8.7	Ao	4	..	40074b	99	1590	3.0	+46 46	8.6	9.4	G5	3	..	38291i
50	427	2.7	+74 22	7.67	7.73	A2	7	..	37714i	100	2204	3.0	+24 56	8.76	9.32	Go	1	..	38642i

THE HENRY DRAPER CATALOGUE.

87900

10^h 3^m 0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2149	3.0	+12 27	1.34	1.29	B8	..	R	28,204	51	2857	3.3	-56 54	9.0	10.0	Ko	2	..	38797b
2	2322	3.0	+ 8 32	8.9	9.4	F8	2	..	13402b	52	1666	3.3	-60 47	9.0	9.8	K5	1	..	38749b
3	2993	3.0	- 5 14	8.85	10.03	K5	2	..	40281b	53	905	3.3	-71 35	7.8	7.8	B9	5	..	22988b
4	2986	3.0	-15 41	10.0	11.0	Ko	1	..	40313b	54	636	3.3	-75 35	9.1	9.6	F8	4	..	21453b
5	7915	3.0	-28 46	10.3	9.4	Ao	2	..	39939b	55	2318	3.4	+38 55	8.0	9.4	Ma	2	..	38241i
6	6149	3.0	-36 11	8.2	10.4	K5	2	..	40276b	56	2051	3.4	+26 0	8.8	9.8	Ko	2	..	37529i
7	6199	3.0	-38 34	10.5	10.4	Go	2	..	39922b	57	2295	3.4	+ 3 48	9.3	9.4	A2	3	..	19341b
8	5615	3.0	-41 52	8.8	9.2	F8	3	0,2	40276b	58	2616	3.4	- 0 9	10.0	11.0	Ko	1	..	19341b
9	4956	3.0	-49 29	7.9	8.9	K5	1	..	13040b	59	2995	3.4	- 5 34	9.6	10.2	G	1	..	40281b
10	4813	3.0	-50 35	7.1	8.1	Ao	..	2,8	56,127	60	2963	3.4	- 7 28	9.1	10.1	Ko	2	..	40281b
11	2899	3.0	-55 9	9.9	10.0	A2	2	..	38797b	61	2924	3.4	-20 2	8.8	10.0	Ko	3	..	40313b
12	1435	3.1	+56 2	8.7	9.5	G5	3	..	38638i	62	8787	3.4	-24 28	8.8	8.9	Ko	4	..	40303b
13	1366	3.1	+55 35	9.4	10.2	G5	1	..	38638i	63	7923	3.4	-28 34	10.0	10.8	K5	1	..	39939b
14	2185	3.1	+23 59	7.62	7.90	Fo	5	..	37571i	64	6308	3.4	-37 25	8.8	9.2	A3	5	..	40276b
15	2323	3.1	+ 8 4	9.3	9.6	Fo	2	..	13402b	65	5620	3.4	-41 57	8.8	8.6	F5	3	3,3	40276b
16	3089	3.1	-13 2	8.5	9.5	Ko	4	..	40247b	66	4485	3.4	-52 3	7.8	8.1	F2	6	..	38797b
17	3037	3.1	-13 21	8.7	9.8	K2	2	..	40247b	67	2905	3.4	-55 35	8.3	9.7	K5	2	..	38797b
18	5939	3.1	-42 41	7.9	9.6	Ko	2	2,2	19157b	68	2860	3.4	-56 30	9.9	10.0	A5	3	..	38797b
19	3223	3.1	-52 9	8.6	8.9	B9	3	..	38797b	69	1198	3.4	-67 48	7.0	8.0	Ko	8	..	40297b
20	2657	3.1	-57 29	8.8	9.7	K5	2	E	38797b	70	907	3.4	-71 23	9.3	9.4	A5	1	..	22988b
21	1865	3.1	-59 49	9.2	10.4	K5	1	..	40105b	71	399	3.4	-81 44	5.62	6.0	Ao	..	1,7 R	56,127
22	1181	3.1	-64 45	8.2	8.3	A2	6	..	40221b	72	1923	3.5	+49 7	8.8	8.9	A3	4	..	38291i
23	634	3.1	-75 35	9.2	9.6	F5	3	..	21453b	73	2291	3.5	+ 5 1	8.9	9.4	F8	1	..	13402b
24	428	3.2	+74 30	9.4	9.7	F2	2	..	38663i	74	2406	3.5	+ 1 39	6.56	6.84	Fo	10	..	19341b
25	886	3.2	+63 25	7.12	8.12	Ko	8	..	38654i	75	3069	3.5	- 2 59	7.78	8.78	Ko	6	0,3	22970b
26	1984	3.2	+31 50	9.2	10.3	K2	1	..	37529i	76	2856	3.5	- 3 39	8.3	8.6	F2	6	0,5 R	22970b
27	3109	3.2	-20 18	9.23	10.0	F2	2	..	40313b	77	2964	3.5	- 7 13	9.1	10.3	K5	1	..	40281b
28	8784	3.2	-24 39	9.0	9.4	G5	3	..	40303b	78	2998	3.5	-10 38	8.1	8.9	G5	6	..	40281b
29	7073	3.2	-32 45	9.2	9.0	Fo	4	..	40082b	79	3068	3.5	-17 55	8.3	8.6	Fo	5	..	40313b
30	6676	3.2	-33 57	10.1	10.2	Ko	2	..	40082b	80	2994	3.5	-21 49	8.3	8.5	F5	6	..	40303b
31	6151	3.2	-37 1	9.1	9.5	G5	4	..	40276b	81	7778	3.5	-25 51	9.0	9.7	Ko	1	..	39939b
32	4482	3.2	-51 49	9.2	8.9	Ao	3	..	38797b	82	7978	3.5	-32 6	8.6	9.0	A5	5	..	40082b
33	3311	3.2	-53 25	8.2	8.2	F2	6	..	38797b	83	6153	3.5	-40 7	9.38	9.6	Go	3	..	40276b
34	1283	3.2	-63 26	8.9	9.0	A3	5	..	40221b	84	5774	3.5	-45 10	8.64	9.5	Ko	2	..	40189b
35	635	3.2	-75 16	10.1	10.1	Ao	2	..	21453b	85	3234	3.5	-52 37	8.3	8.3	Ao	7	..	38797b
36	562	3.3	+69 40	8.74	8.88	A5	4	..	37706i	86	3318	3.5	-54 4	7.2	7.6	B9	7	..	38797b
37	1108	3.3	+61 57	8.8	10.0	K5	1	..	37725i	87	1668	3.5	-60 35	8.8	9.6	G5	2	..	40105b
38	2053	3.3	+36 51	9.2	10.0	G5	2	..	38241i	88	1433	3.5	-62 55	9.8	9.8	Ao	2	..	40221b
39	2405	3.3	+ 1 6	8.1	8.2	A2	7	..	19341b	89	1176	3.5	-67 2	8.7	8.7	Ao	3	..	40074b
40	2848	3.3	-19 4	8.1	8.2	A2	6	..	40313b	90	1200	3.5	-67 9	8.7	9.8	K2	1	..	40074b
41	9024	3.3	-23 33	9.2	9.4	Ko	3	..	40303b	91	1146	3.5	-70 6	9.38	9.7	G	2	..	40074b
42	9023	3.3	-23 53	8.3	9.4	K2	3	..	40303b	92	530	3.6	+71 42	9.7	10.0	F	2	..	37706i
43	7223	3.3	-27 37	9.6	10.5	G5	2	..	15600b	93	1110	3.6	+62 27	8.3	8.4	A2	4	..	38654i
44	8109	3.3	-29 45	8.8	9.0	A2	4	..	40082b	94	2185	3.6	+22 18	8.0	8.0	Ao	6	..	37571i
45	6445	3.3	-34 45	9.1	9.2	Ao	3	..	13116b	95	2307	3.6	+ 9 9	9.3	10.1	G5	2	..	37724i
46	5943	3.3	-42 28	7.7	8.9	K5	3	0,3	19157b	96	2245	3.6	+ 7 12	8.9	8.9	B9	5	E	37724i
47	5942	3.3	-42 38	7.9	8.3	F5	4	3,4	40276b	97	3006	3.6	- 9 29	10.0	11.1	K2	1	..	40281b
48	5935	3.3	-44 1	8.9	10.3	K2	1	..	40189b	98	2926	3.6	-19 15	7.24	8.2	Go	7	..	40313b
49	6207	3.3	-44 43	9.4	8.8	Ao	2	..	40189b	99	7980	3.6	-31 34	7.52	7.8	A2	8	..	40082b
50	5770	3.3	-45 42	9.0	8.6	Ao	4	..	40189b	100	6155	3.6	-39 52	10.1	10.1	Fo	1	..	40276b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

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10^h 3^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5624	3.6	-41 14	9.1	9.2	B9	4	1,3	40276b	51	6313	4.0	-37 26	8.8	8.7	A2	6	..	40276b
2	5775	3.6	-45 17	8.98	10.3	K2	1	..	40189b	52	6314	4.0	-37 39	9.7	10.7	G	1	..	40276b
3	5560	3.6	-48 2	8.3	8.9	Ko	2	..	13040b	53	6213	4.0	-38 45	10.1	9.9	Ao	2	..	40276b
4	3151	3.6	-54 45	8.6	10.3	Ko	1	..	38757b	54	4824	4.0	-50 31	8.6	8.9	A5	4	..	38797b
5	2909	3.6	-55 27	9.6	9.7	A2	2	..	38797b	55	3167	4.0	-54 28	8.3	10.0	K5	3	..	38797b
6	1434	3.6	-62 58	9.4	9.5	A2	3	..	40221b	56	1921	4.0	-58 45	8.4	8.9	G5	3	..	40105b
7	2106	3.7	+38 39	8.6	9.4	G5	1	..	38241i	57	504	4.0	-78 40	9.2	9.7	F8	4	..	21453b
8	2206	3.7	+25 2	8.8	9.6	G5	3	..	38642i	58	473	4.0	-79 25	9.3	10.3	Ko	3	..	21453b
9	2307	3.7	+19 1	7.11	7.89	G5	7	..	37571i	59	756	4.1	+65 2	8.1	9.1	Ko	3	..	38654i
10	2811	3.7	-12 2	8.3	9.4	K2	4	3,2	40247b	60	2087	4.1	+15 51	8.5	9.1	Go	2	..	37724i
11	3094	3.7	-12 33	9.3	9.9	Go	3	..	40247b	61	3003	4.1	-11 3	9.1	10.1	Ko	1	..	40281b
12	2851	3.7	-18 16	9.3	10.4	K2	1	..	40313b	62	2997	4.1	-21 16	8.5	9.7	K2	3	..	40313b
13	6156	3.7	-36 50	6.36	7.3	Ko	8	..	40276b	63	8801	4.1	-24 29	8.1	8.5	Ko	6	..	40303b
14	6310	3.7	-37 52	8.2	8.6	A2	7	..	40276b	64	7787	4.1	-25 11	9.75	9.7	A2	3	..	40303b
15	5561	3.7	-47 46	6.73	6.7	B3	..	2,10	56,127	65	7936	4.1	-28 29	9.2	10.0	Go	2	..	39939b
16	1291	3.8	+59 7	8.5	9.6	K2	3	..	37725i	66	8212	4.1	-30 36	7.85	8.7	Go	5	..	40082b
17	1956	3.8	+43 51	9.0	9.4	F5	1	..	38291i	67	6162	4.1	-37 4	9.5	10.1	Ko	1	..	40276b
18	1947	3.8	+33 17	8.4	9.4	Ko	2	..	38673i	68	2875	4.1	-57 3	8.6	8.5	Fo	4	0,4	38797b
19	1986	3.8	+32 5	10.0	10.6	Go	2	..	37529i	69	2686	4.1	-57 58	8.4	9.1	G5	4	..	40105b
20	1853	3.8	+27 33	8.0	8.3	Fo	3	..	38203i	70	896	4.1	-72 30	10.0	10.0	Ao	2	..	39946b
21	2156	3.8	+20 49	6.65	7.07	F5	7	R	37571i	71	2116	4.2	+10 5	7.52	8.87	Ma	3	..	37724i
22	3082	3.8	+20 49	9.6	10.2	Go	1	..	40281b	72	2321	4.2	+2 52	7.6	8.2	Go	8	..	19341b
23	3000	3.8	-7 8	6.46	6.46	Ao	10	..	40281b	73	2293	4.2	+2 26	9.3	9.4	A3	2	..	19341b
24	3036	3.8	-15 7	6.16	6.16	Ao	9	..	40247b	74	2618	4.2	+0 15	10.7	11.1	F5	2	..	19341b
25	3070	3.8	-18 1	8.9	10.0	K2	2	..	40313b	75	3005	4.2	-10 42	9.6	10.1	F8	2	..	40281b
26	2995	3.8	-21 59	9.3	9.2	Ao	4	..	40303b	76	3097	4.2	-12 42	7.9	8.9	Ko	4	..	40247b
27	3245	3.8	-52 46	var.	var.	Ma	2	R	38797b	77	8802	4.2	-24 39	9.2	10.0	Ko	1	..	40303b
28	2869	3.8	-56 34	8.6	9.4	F8	4	..	38797b	78	6457	4.2	-34 41	var.	var.	F2	1	R	40082b
29	1918	3.8	-58 54	8.8	9.2	B8	2	..	40105b	79	1287	4.2	-64 6	8.4	8.4	B9	5	..	40221b
30	1673	3.8	-60 43	7.3	7.4	Ao	6	0,8	34089b	80	506	4.2	-78 42	9.3	9.8	F8	3	..	21453b
31	1473	3.8	-61 51	9.0	9.2	B8	4	..	40221b	81	376	4.3	+76 32	9.1	9.5	F5	2	..	37714i
32	2408	3.9	+0 52	9.39	10.17	G5	2	..	19341b	82	2088	4.3	+16 26	8.3	9.1	G5	2	..	37571i
33	2812	3.9	-12 8	9.1	9.2	A3	6	..	40247b	83	2301	4.3	-1 11	7.8	9.0	K5	6	..	19341b
34	2928	3.9	-19 50	9.1	10.3	Ko	1	..	40313b	84	3039	4.3	-14 59	7.46	8.24	G5	7	..	40313b
35	8207	3.9	-30 13	9.45	9.4	F5	3	..	40082b	85	3071	4.3	-17 41	9.3	10.3	Ko	2	..	40313b
36	6688	3.9	-33 56	9.5	11.3	K5	1	..	40082b	86	9042	4.3	-23 59	9.0	10.3	K2	1	..	40303b
37	6159	3.9	-36 34	8.5	9.2	Ao	5	..	40276b	87	8805	4.3	-24 23	9.6	9.7	F5	2	..	40303b
38	6312	3.9	-38 1	9.1	9.2	A2	5	..	40276b	88	8127	4.3	-29 15	7.8	8.7	F5	4	..	39939b
39	5954	3.9	-42 24	8.8	8.9	Fo	4	0,4	19157b	89	5634	4.3	-41 25	9.5	9.8	Ko	2	..	40276b
40	6215	3.9	-44 35	9.6	8.9	Go	2	..	40189b	90	3258	4.3	-52 37	9.3	9.3	Ao	2	..	38797b
41	3158	3.9	-55 2	10.3	10.3	A	2	..	38797b	91	3173	4.3	-54 42	10.2	10.3	A2	2	..	38757b
42	908	3.9	-72 1	8.6	9.4	G5	2	..	39946b	92	2693	4.3	-57 53	8.0	8.5	Go	7	..	40105b
43	85	4.0	+87 46	8.7	9.7	Ko	3	..	37793i	93	1476	4.3	-61 34	8.4	8.3	A2	3	..	34089b
44	155	4.0	+85 47	8.56	9.34	G5	2	..	37546i	94	1244	4.3	-65 49	9.3	9.3	Ao	2	..	40074b
45	1721	4.0	+50 0	7.22	7.56	F2	7	..	38291i	95	1028	4.3	-68 34	9.7	9.7	Ao	2	..	40297b
46	2168	4.0	+15 43	8.9	9.3	F5	1	..	37571i	96	2321	4.4	+38 53	8.8	9.6	G5	1	..	38241i
47	2265	4.0	+6 39	6.83	7.83	Ko	7	0,8	37724i	97	2322	4.4	+2 51	8.6	9.4	G5	5	..	19341b
48	6690	4.0	-33 38	8.8	9.4	A2	4	..	40082b	98	2859	4.4	-8 14	9.2	10.2	Ko	2	..	40281b
49	6456	4.0	-34 31	7.19	8.0	A2	7	..	13116b	99	8807	4.4	-24 34	8.4	9.4	Ko	3	..	40303b
50										100	7089	4.4	-32 22	8.8	9.4	Ko	3	..	40082b

THE HENRY DRAPER CATALOGUE.

88100

10^h 4^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6225	m. 4.4	° -44 31	9.2	8.2	F2	3	..	40189b	51	1847	m. 4.8	° +28 42	8.7	9.7	Ko	1	..	37529i
2	2928	4.4	-56 5	9.0	9.7	A5	4	..	38797b	52	2409	4.8	+ 1 0	9.3	9.8	F8	2	..	39341b
3	1477	4.4	-61 45	8.2	7.7	B8	3	..	34089b	53	2970	4.8	- 7 35	9.6	10.4	G5	1	..	40281b
4	2177	4.5	+17 16	9.3	10.3	K	1	..	37571i	54	6473	4.8	-34 35	9.5	9.8	A5	3	..	40082b
5	2323	4.5	+ 3 39	8.5	9.5	Ko	4	..	19341b	55	6233	4.8	-38 27	10.5	10.8	Ko	1	..	39922b
6	2860	4.5	- 3 27	8.3	9.5	K5	3	3,2	22970b	56	6168	4.8	-39 38	10.3	10.1	A2	2	..	40276b
7	3008	4.5	- 9 26	9.1	10.1	Ko	2	..	40281b	57	3266	4.8	-52 20	8.7	9.0	F5	3	..	38797b
8	3098	4.5	-12 52	7.34	8.69	Ma	5	..	40247b	58	1479	4.8	-61 44	6.60	6.4	B8	7	..	34089b
9	3072	4.5	-17 39	7.13	7.47	F2	8	..	40313b	59	681	4.8	-73 37	9.1	9.1	Ao	5	..	21453b
10	2844	4.5	-23 4	7.98	8.6	G5	6	..	40303b	60	1594	4.9	+46 44	8.7	9.5	G5	1	..	38291i
11	7793	4.5	-25 17	9.6	9.8	G5	2	..	40303b	61	2063	4.9	+41 10	6.51	7.51	Ko	6	0,7 R	38291i
12	5970	4.5	-42 43	10.5	9.9	A2	2	..	40189b	62	2158	4.9	+21 26	7.28	7.56	Fo	6	..	37571i
13	5792	4.5	-45 32	8.9	8.8	Ao	3	..	40189b	63	2294	4.9	+ 1 57	10.0	10.1	A5	3	..	19341b
14	1678	4.5	-60 36	9.5	9.5	Ao	2	..	38749b	64	2622	4.9	+ 0 43	10.0	11.2	K5	1	..	19341b
15	1438	4.5	-62 10	8.6	8.4	Bo	3	..	34089b	65	2621	4.9	+ 0 25	10.0	10.8	G5	2	..	19341b
16	1437	4.5	-62 40	9.5	9.6	A3	2	..	40221b	66	3041	4.9	-14 16	7.9	9.3	Ma	3	..	40247b
17	964	4.5	-70 15	9.68	10.6	K2	1	..	40074b	67	3074	4.9	-17 46	9.6	10.6	Ko	1	..	40313b
18	2092	4.6	+34 37	8.4	9.2	G5	1	E	38241i	68	2998	4.9	-21 46	8.5	9.4	K2	4	..	40303b
19	2324	4.6	+ 3 40	8.7	9.5	G5	4	..	19341b	69	8813	4.9	-24 22	10.3	10.3	Ko	1	..	40303b
20	3000	4.6	- 5 49	10.0	10.8	G5	1	..	40281b	70	6328	4.9	-37 55	9.2	10.4	G5	3	..	39922b
21	2969	4.6	- 7 35	9.6	10.7	K2	1	..	40281b	71	6327	4.9	-38 1	10.8	11.0	A3	1	..	39922b
22	9044	4.6	-23 25	9.2	10.3	F8	2	..	40303b	72	5968	4.9	-43 13	9.6	8.5	Ao	4	..	40189b
23	6695	4.6	-33 58	9.4	9.4	A5	3	..	40082b	73	2948	4.9	-55 33	9.0	10.0	K	1	..	38797b
24	6463	4.6	-34 26	8.8	8.9	Ao	3	..	13116b	74	2949	4.9	-55 56	7.2	8.3	Ko	5	..	38797b
25	6167	4.6	-36 47	9.7	10.4	Go	1	..	40276b	75	2892	4.9	-56 48	8.7	8.5	B8	5	..	38797b
26	6322	4.6	-37 41	9.5	9.5	B9	3	..	40276b	76	2703	4.9	-57 42	7.0	8.0	Go	4	0,8	34089b
27	6227	4.6	-39 3	8.5	8.6	A5	4	..	40276b	77	1686	4.9	-60 26	8.7	8.9	F5	4	..	38749b
28	5855	4.6	-46 33	9.6	8.6	Ao	2	..	13040b	78	1246	4.9	-66 1	8.6	9.8	K5	1	..	40074b
29	3177	4.6	-54 17	8.9	10.0	Go	2	..	38797b	79	2189	5.0	+24 23	7.91	8.69	G5	4	..	37571i
30	909	4.6	-71 17	8.2	9.4	K5	1	..	22988b	80	2311	5.0	+ 9 42	8.97	9.75	G5	2	..	37724i
31	637	4.7	+67 42	8.6	9.6	Ko	3	..	38654i	81	3002	5.0	- 6 8	9.3	9.9	Go	2	..	40281b
32	1111	4.7	+62 16	9.7	9.7	Ao	2	..	37725i	82	2818	5.0	-11 36	6.20	6.26	A2	10	..	40247b
33	2326	4.7	+18 41	8.1	8.9	G5	4	..	37571i	83	2931	5.0	-19 28	9.1	10.4	K5	1	..	40313b
34	2179	4.7	+17 1	8.1	8.9	G5	3	..	37571i	84	9050	5.0	-23 43	10.0	10.3	F8	1	..	40303b
35	2816	4.7	-11 24	7.52	8.59	K2	5	..	40247b	85	5970	5.0	-43 12	7.5	7.9	G5	5	..	40189b
36	7238	4.7	-27 24	8.1	9.8	Ko	2	..	39939b	86	4836	5.0	-50 18	8.6	9.3	Ao	3	..	38797b
37	7997	4.7	-31 17	9.8	9.9	B9	2	..	40082b	87	1933	5.0	-58 45	9.2	9.2	Ao	2	..	40105b
38	7092	4.7	-32 28	8.5	8.5	F2	5	..	40082b	88	1204	5.0	-67 51	8.8	8.8	B9	4	..	40297b
39	5819	4.7	-40 30	9.4	9.8	F2	3	..	40276b	89	966	5.0	-70 59	6.52	7.1	F8	7	..	22988b
40	5642	4.7	-41 17	9.2	10.4	K5	2	..	40276b	90	508	5.0	-78 56	9.9	10.2	F2	2	..	21453b
41	5857	4.7	-46 49	7.9	8.6	K2	2	..	13040b	91	2058	5.1	+36 58	7.40	8.40	Ko	5	..	38241i
42	3265	4.7	-52 36	8.9	9.2	Fo	3	..	38797b	92	2309	5.1	+19 24	8.9	9.7	G5	2	..	37571i
43	2701	4.7	-58 7	8.5	10.0	K5	2	..	40105b	93	2160	5.1	+12 5	8.50	8.58	G5	4	..	37724i
44	1898	4.7	-59 24	9.6	10.1	F8	3	..	40105b	94	2294	5.1	+ 5 8	8.9	9.0	A3	2	..	13402b
45	1293	4.7	-63 44	8.8	8.7	B5	6	..	40221b	95	2972	5.1	- 7 55	6.06	6.06	Ao	6	..	10640b
46	910	4.7	-71 38	9.2	9.2	Ao	3	..	39946b	96	3006	5.1	-10 22	9.11	9.39	Fo	4	..	40281b
47	475	4.7	-79 38	8.8	9.1	Fo	7	..	21453b	97	3100	5.1	-12 23	9.1	9.6	F8	3	..	40247b
48	482	4.8	+72 30	9.4	10.4	Ko	2	..	37706i	98	3116	5.1	-21 11	8.3	9.1	F8	6	..	40313b
49	758	4.8	+65 33	9.4	9.8	F5	2	..	38654i	99	9051	5.1	-23 23	8.4	9.5	A5	4	..	40303b
50	2295	4.8	+39 52	8.27	8.27	Ao	4	0,3	38241i	100	8222	5.1	-30 27	9.3	10.0	Ko	1	..	40082b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

88200

10^h 5^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7101	5.1	-32 21	7.9	8.4	F8	7	..	40082b	51	6176	5.4	-39 33	11.9	11.7	Mb	..	..	M
2	7100	5.1	-32 49	9.7	10.0	Ko	1	..	40082b	52	5647	5.4	-41 36	8.5	8.3	A5	6	0,4	19157b
3	6190	5.1	-35 54	9.4	9.5	A2	3	..	40276b	53	4843	5.4	-51 0	9.2	9.2	B9	4	..	38797b
4	6170	5.1	-39 21	8.0	8.9	Ko	4	..	40276b	54	1689	5.4	-60 24	8.9	8.9	Ao	3	..	38749b
5	5340	5.1	-48 22	7.8	8.1	F2	6	..	13040b	55	1690	5.4	-60 49	9.5	9.5	A	1	..	38749b
6	4507	5.1	-51 19	5.10	4.98	B5	..	R	56,127	56	1303	5.4	-63 9	9.0	10.0	Ko	2	..	40221b
7	2952	5.1	-55 16	9.28	9.4	Ao	4	..	38797b	57	2171	5.5	+14 59	8.5	9.5	Ko	3	..	37724i
8	2708	5.1	-57 14	8.8	9.1	Ao	3	0,3	38797b	58	2297	5.5	+ 2 27	8.7	9.7	Ko	4	..	19341b
9	1905	5.1	-59 45	10.1	10.1	Ao	2	..	40105b	59	2849	5.5	-23 9	9.1	10.3	K2	1	..	40303b
10	1480	5.1	-61 16	8.05	9.2	Ko	3	..	38749b	60	7109	5.5	-32 31	8.9	9.9	K5	1	..	40082b
11	1442	5.1	-63 3	9.0	10.4	Ma	..	..	M	61	6180	5.5	-36 17	7.7	9.2	Go	5	..	40276b
12	429	5.2	+74 29	9.7	10.5	G5	2	..	37714i	62	6338	5.5	-37 14	8.0	8.0	Ao	7	R	40276b
13	2217	5.2	+13 25	9.5	9.8	F	2	R	37724i	63	4847	5.5	-50 9	8.4	8.1	B3	5	..	38797b
14	2295	5.2	+ 1 50	10.0	10.1	A5	2	..	19341b	64	4515	5.5	-51 41	9.6	9.6	K	1	..	38797b
15	3101	5.2	-12 19	5.42	5.70	Fo	..	5,10	56,87	65	1446	5.5	-63 1	9.5	9.5	Ao	2	..	40221b
16	2853	5.2	-18 22	8.5	9.6	K2	3	..	40313b	66	1304	5.5	-63 53	9.8	9.8	A	1	..	40221b
17	6193	5.2	-35 10	9.28	10.4	K2	1	..	40082b	67	1207	5.5	-67 50	8.2	9.4	K5	2	..	40297b
18	6194	5.2	-35 22	6.28	6.8	Go	9	0,10	13116b	68	377	5.6	+76 42	8.5	9.3	G5	3	..	37714i
19	6332	5.2	-37 28	9.5	9.8	A2	2	..	40276b	69	1990	5.6	+32 42	8.0	9.0	Ko	2	E	38203i
20	5980	5.2	-42 29	9.1	8.9	A3	3	..	40276b	70	2159	5.6	+21 13	6.63	6.91	Fo	7	..	37571i
21	5581	5.2	-47 7	9.8	9.4	G5	1	..	13040b	71	3075	5.6	-17 48	10.2	10.2	Ao	1	..	40313b
22	5578	5.2	-47 13	9.2	8.6	F8	2	..	13040b	72	2850	5.6	-23 12	9.2	10.0	A2	3	..	40303b
23	5576	5.2	-47 49	6.84	7.1	A5	..	0,9	56,127	73	7248	5.6	-27 42	8.4	9.1	A5	4	..	39939b
24	4994	5.2	-49 17	7.7	8.3	F5	5	3,5	38797b	74	6238	5.6	-38 20	9.1	10.4	K2	1	..	39922b
25	4510	5.2	-51 51	9.2	9.2	A5	3	..	38797b	75	4850	5.6	-50 47	9.2	9.2	A2	4	..	38797b
26	2953	5.2	-55 55	7.9	8.6	Ko	4	..	38797b	76	2963	5.6	-55 25	9.3	9.4	A2	3	..	38797b
27	1909	5.2	-59 17	9.5	9.5	Ao	2	..	40105b	77	1447	5.6	-62 18	8.8	9.2	F5	3	..	40221b
28	1149	5.2	-69 35	9.4	9.4	Ao	2	..	40074b	78	509	5.6	-78 34	7.7	7.8	A2	10	..	21453b
29	585	5.2	-78 0	9.9	10.0	A2	3	..	21453b	79	1170	5.7	+61 0	7.9	8.4	F8	4	0,2	37725i
30	1725	5.3	+49 58	6.82	8.00	K5p	6	R	38291i	80	2105	5.7	+31 17	9.2	10.2	Ko	1	..	37529i
31	2110	5.3	+37 53	6.14	7.14	Ko	7	..	38241i	81	2092	5.7	+16 0	8.9	9.2	F	1	..	37571i
32	2090	5.3	+16 32	8.3	9.4	K2	3	..	37571i	82	2327	5.7	+ 8 11	8.5	8.8	F2	3	..	37724i
33	2091	5.3	+16 12	7.77	8.05	Fo	4	..	37571i	83	2410	5.7	+ 1 29	9.3	10.5	K5	2	..	19341b
34	2161	5.3	+12 19	8.26	9.26	Ko	4	..	37724i	84	2820	5.7	-11 52	3.83	4.83	Ko	..	R	56,87
35	2974	5.3	- 7 41	10.0	10.3	Fo	2	..	40281b	85	3044	5.7	-15 8	8.91	8.97	A2	4	..	40313b
36	2862	5.3	- 8 13	9.1	10.1	Ko	3	..	40281b	86	7805	5.7	-25 35	9.3	9.8	G5	2	..	39939b
37	2863	5.3	- 8 34	8.9	9.9	Ko	3	..	40281b	87	8230	5.7	-30 24	7.85	9.0	K2	5	..	40082b
38	9056	5.3	-23 29	9.8	10.0	F8	1	..	40303b	88	6242	5.7	-38 34	9.9	10.6	Ko	1	..	39922b
39	8819	5.3	-24 53	11.0	10.5	G5	1	..	40303b	89	6240	5.7	-38 54	10.3	11.2	K2	1	..	39922b
40	6178	5.3	-37 2	9.4	9.5	B9	3	..	40276b	90	5650	5.7	-41 45	8.6	10.4	K5	1	..	19157b
41	6174	5.3	-39 59	9.14	8.9	Fo	5	..	40276b	91	2969	5.7	-55 44	9.1	9.1	Ao	4	..	38797b
42	4511	5.3	-51 37	9.6	8.9	Ao	3	..	38797b	92	2724	5.7	-57 33	7.6	7.9	B8	4	1,8	34089b
43	1937	5.3	-58 56	9.1	9.2	A5	2	..	40105b	93	1695	5.7	-60 42	8.0	8.9	K5	4	..	38749b
44	1910	5.3	-59 23	9.0	10.4	Ma	1	..	40105b	94	1484	5.7	-61 23	8.65	8.9	Ao	3	..	38749b
45	1183	5.3	-66 11	9.4	9.8	F5	1	..	40074b	95	328	5.8	+79 26	6.72	6.72	Ao	8	2,9	37714i
46	663	5.3	-74 8	9.1	10.1	Ko	2	..	21453b	96	1172	5.8	+61 35	8.07	8.35	Fo	5	E	38654i
47	2095	5.4	+42 14	7.82	8.89	K2	3	..	38291i	97	1354	5.8	+54 43	8.88	10.06	K5	1	..	38665i
48	2809	5.4	- 4 59	8.1	8.5	F5	5	0,7	13369b	98	3010	5.8	-10 59	9.3	9.9	Go	1	..	40281b
49	3012	5.4	- 9 51	8.9	9.2	Fo	5	..	40281b	99	2986	5.8	-16 17	9.3	9.7	F5	1	..	40313b
50	7947	5.4	-28 47	8.6	9.8	K2	1	..	39939b	100	3078	5.8	-18 6	7.08	7.36	Fo	7	..	40313b

THE HENRY DRAPER CATALOGUE.

88300

10^h 5^m 8^s

H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5829	m. 5.8	° -40 25	9.7	10.4	Ko	1	..	40276b	51	423	m. 6.1	° -81 4	6.60	7.9	G5	8	..	13465b
2	5651	5.8	-41 59	8.3	8.0	A3	5	1,7	40276b	52	2044	6.2	+36 46	8.2	9.2	Ko	3	..	38241i
3	6252	5.8	-44 42	7.1	8.5	K2	4	..	40189b	53	1975	6.2	+29 58	8.4	8.4	Ao	1	..	38203i
4	5879	5.8	-46 57	7.2	8.2	Ko	..	0,7	56,127	54	2311	6.2	+18 49	8.1	8.5	F5	4	..	37571i
5	5005	5.8	-49 27	9.6	9.2	Ao	2	..	13040b	55	2217	6.2	+13 51	6.41	6.83	F5	9	..	37724i
6	5003	5.8	-49 45	9.1	9.3	Ko	1	..	13040b	56	2162	6.2	+12 32	8.08	9.26	K5	4	..	37724i
7	1922	5.8	-59 55	8.4	8.7	A2	6	..	38749b	57	2411	6.2	+1 44	10.7	11.3	G	1	..	19341b
8	968	5.8	-70 47	8.0	9.1	K2	3	..	22988b	58	3092	6.2	-6 33	8.1	9.2	K2	4	..	40281b
9	665	5.8	-74 20	8.4	8.7	Fo	7	..	21453b	59	2987	6.2	-16 26	7.26	8.26	Ko	7	..	40313b
10	664	5.8	-75 5	9.5	10.5	K	1	..	21453b	60	2937	6.2	-19 27	9.1	10.0	G5	1	..	40313b
11	1293	5.9	+59 4	8.7	9.7	Ko	1	..	37725i	61	2938	6.2	-20 9	9.18	9.4	Go	2	..	40313b
12	1958	5.9	+44 3	8.7	9.0	F2	2	..	38291i	62	6179	6.2	-39 40	10.3	10.4	G5	1	..	39922b
13	1850	5.9	+28 20	8.2	9.4	K5	1	..	38203i	63	5836	6.2	-41 1	10.3	9.6	Ao	2	..	40276b
14	2189	5.9	+22 15	9.2	9.8	G	1	..	37571i	64	4860	6.2	-50 46	10.5	9.5	A2	2	..	38797b
15	2296	5.9	+5 45	7.8	8.8	Ko	7	..	13402b	65	3296	6.2	-52 52	8.9	8.9	B9	4	..	38797b
16	2865	5.9	-3 50	8.1	9.1	Ko	1	..	13369b	66	1701	6.2	-61 4	var.	var.	Md	..	R	28,204
17	3104	5.9	-12 22	8.6	8.9	Fo	4	..	40247b	67	..	6.2	-62 7	Neb.	Neb.	Pd	..	R	76,22
18	2856	5.9	-18 13	9.3	10.3	Ko	1	..	40313b	68	1309	6.2	-63 44	9.5	9.5	A	1	..	40221b
19	2855	5.9	-18 27	9.8	10.3	F8	1	..	40313b	69	409	6.2	-82 1	7.31	8.8	Ko	6	0,5	13465b
20	6343	5.9	-37 59	10.1	10.4	F5	1	..	39922b	70	1251	6.3	+56 54	9.4	9.4	Ao	1	..	38638i
21	3290	5.9	-52 23	7.6	8.3	B8	7	..	38797b	71	2193	6.3	+24 15	8.6	9.2	Go	3	..	37571i
22	1190	5.9	-65 1	7.44	7.2	B8	8	..	40221b	72	3096	6.3	-6 49	6.06	6.06	Ao	10	..	40281b
23	1248	5.9	-65 19	5.36	6.9	Ko	..	0,10	56,127	73	2866	6.3	-8 54	8.5	9.0	F8	5	..	40281b
24	915	5.9	-71 44	9.2	9.2	B9	3	..	39946b	74	3053	6.3	-13 57	9.3	9.3	Ao	3	..	40247b
25	510	5.9	-79 4	9.3	10.3	Ko	2	..	21453b	75	8833	6.3	-24 56	7.7	8.8	Ma	4	..	40303b
26	477	5.9	-79 10	9.0	10.0	Ko	4	..	21453b	76	6211	6.3	-36 6	8.3	8.2	A2	7	..	40276b
27	1355	6.0	+53 59	8.1	9.1	Ko	2	..	38638i	77	6248	6.3	-38 9	10.3	10.8	G5	1	..	39922b
28	1951	6.0	+33 38	8.4	9.6	K5	1	..	38673i	78	6181	6.3	-39 29	9.4	9.5	Fo	3	..	40276b
29	1974	6.0	+30 39	8.34	9.34	Ko	1	..	38203i	79	5656	6.3	-42 6	11.0	8.9	A3	3	..	40276b
30	2314	6.0	+9 27	9.3	10.4	K2	1	..	13402b	80	6002	6.3	-43 57	9.4	8.6	A2	4	..	40189b
31	2268	6.0	+6 40	7.9	8.9	Ko	3	0,4	37724i	81	5889	6.3	-47 3	10.5	9.2	F5	1	..	13040b
32	2356	6.0	-1 56	7.7	8.5	G5	4	0,8	13369b	82	5601	6.3	-47 31	6.8	7.8	Ko	..	0,7	56,127
33	2977	6.0	-7 56	5.79	6.79	Ko	10	..	40281b	83	3218	6.3	-54 17	8.6	10.0	K5	1	..	38797b
34	2854	6.0	-22 34	9.3	9.7	Ao	3	..	40303b	84	2918	6.3	-56 10	8.0	8.6	G5	4	..	38797b
35	7116	6.0	-33 4	8.5	8.7	F2	4	..	40082b	85	2919	6.3	-56 15	8.1	8.6	Ao	8	..	38797b
36	6344	6.0	-37 43	9.5	10.1	Go	2	..	40276b	86	1251	6.3	-65 18	9.2	9.5	Fo	2	..	40221b
37	6245	6.0	-39 3	10.8	10.6	A5	2	..	39922b	87	667	6.3	-74 20	8.8	9.1	F2	3	..	21453b
38	5995	6.0	-43 58	10.2	9.5	A3	2	..	40189b	88	1356	6.4	+53 59	8.7	9.7	Ko	1	..	38638i
39	5811	6.0	-45 58	8.6	8.6	F8	3	..	13040b	89	2180	6.4	+17 46	8.6	9.0	F5	3	..	37571i
40	5886	6.0	-46 8	10.0	9.4	Fo	1	..	13040b	90	2298	6.4	+5 41	9.3	10.4	K2	1	..	13402b
41	2973	6.0	-55 33	9.4	10.0	Go	1	..	38797b	91	2300	6.4	+2 43	9.3	10.3	Ko	2	..	19341b
42	2912	6.0	-57 1	8.6	9.4	Ao	4	..	38797b	92	2625	6.4	+0 11	10.3	10.4	A5	3	..	19341b
43	1697	6.0	-60 35	9.2	9.2	Ao	2	..	38749b	93	2867	6.4	-3 43	8.7	9.3	Go	1	..	13369b
44	1308	6.0	-63 17	8.9	10.1	K5	1	..	40221b	94	3082	6.4	-17 30	9.1	9.1	Ao	4	..	40313b
45	2192	6.1	+24 37	8.81	8.95	A5	4	E	37571i	95	2939	6.4	-19 44	8.8	9.7	Ko	2	..	40313b
46	3046	6.1	-15 13	7.11	8.18	K2	6	..	40313b	96	3120	6.4	-20 19	8.78	9.2	F5	4	..	40313b
47	3002	6.1	-22 9	9.8	10.3	F5	1	..	40303b	97	9075	6.4	-23 22	10.0	10.0	A2	2	..	40303b
48	7810	6.1	-25 38	9.2	9.7	F8	2	..	39939b	98	6249	6.4	-38 25	6.73	7.5	Fo	8	..	40276b
49	5812	6.1	-45 17	7.93	7.5	F2	5	..	40189b	99	5658	6.4	-41 13	6.12	7.7	Ko	7	..	40276b
50	2917	6.1	-56 9	8.5	10.0	Ma	2	..	38797b	100	6261	6.4	-44 49	7.24	7.4	A2	7	..	40189b

88400

10^h 6^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	761	6.5	+65 45	8.2	9.2	Ko	1	..	37346i	51	8845	6.9	-24 53	9.2	9.7	F5	3	..	40303b
2	1461	6.5	+52 0	7.60	8.16	Go	5	..	38638i	52	7131	6.9	-33 7	10.3	10.8	K2	1	..	40082b
3	2447	6.5	+20 36	7.9	8.7	G5	5	..	37571i	53	6353	6.9	-37 23	9.2	9.8	G5	2	..	40276b
4	2312	6.5	+19 26	8.5	9.3	G5	4	..	37571i	54	6007	6.9	-43 19	8.5	9.4	K5	2	..	40189b
5	2359	6.5	-1 14	8.6	9.0	F5	3	..	19341b	55	6008	6.9	-43 35	8.0	7.6	F2	6	..	40189b
6	3008	6.5	-5 40	8.8	10.0	K5	1	..	40281b	56	3409	6.9	-53 22	8.9	10.0	A	1	..	38797b
7	2989	6.5	-17 9	7.7	8.5	G5	7	..	40313b	57	2930	6.9	-56 15	9.9	10.0	A2	2	..	38797b
8	3083	6.5	-17 47	9.3	10.5	K5	2	..	40313b	58	2932	6.9	-57 4	8.9	10.0	Ko	1	..	38797b
9	2940	6.5	-19 27	10.5	10.3	A3	1	..	40313b	59	1213	6.9	-67 48	8.0	9.1	K2	3	..	40297b
10	6507	6.5	-34 19	8.5	9.5	Ko	3	..	40082b	60	2057	7.0	+26 39	8.0	8.1	A2	6	..	38203i
11	2978	6.5	-55 16	9.28	10.0	Ko	1	..	38797b	61	3123	7.0	-20 30	9.2	10.0	F8	2	..	40313b
12	1708	6.5	-60 30	9.4	9.2	B	2	..	38749b	62	7734	7.0	-26 12	8.3	9.8	Ko	3	..	39939b
13	1210	6.5	-68 0	8.2	9.2	Ko	2	..	40297b	63	6517	7.0	-34 18	8.5	8.6	Fo	4	..	40276b
14	668	6.5	-75 0	9.7	10.5	G5	1	..	21453b	64	6518	7.0	-34 41	8.8	10.1	K5	1	..	40082b
15	1441	6.6	+56 24	8.6	9.8	K5	1	R	38638i	65	6257	7.0	-39 3	10.8	10.6	Ao	1	..	39922b
16	1860	6.6	+27 36	8.8	9.8	Ko	1	..	38203i	66	6188	7.0	-40 2	10.8	10.4	A5	2	..	39922b
17	2190	6.6	+21 50	9.0	9.5	F8	2	..	37571i	67	6010	7.0	-43 45	9.4	9.2	Ao	2	..	40189b
18	2270	6.6	+5 49	8.5	9.0	F8	4	..	13402b	68	4536	7.0	-51 13	9.6	9.3	Ao	2	..	38797b
19	2861	6.6	-18 27	7.00	8.35	Ma	8	..	40313b	69	3235	7.0	-54 58	10.3	10.3	A	1	..	38797b
20	8024	6.6	-31 36	10.3	10.2	Ko	1	..	40082b	70	1313	7.0	-64 5	9.6	9.6	A	1	..	40221b
21	1933	6.6	-59 43	9.1	9.0	Ao	4	..	38749b	71	1198	7.0	-64 39	8.6	8.6	B8	5	..	40221b
22	1311	6.6	-64 1	9.0	9.0	B8	3	..	40221b	72	1191	7.0	-67 5	8.7	9.5	G5	2	..	40074b
23	1189	6.6	-66 35	8.8	9.8	Ko	2	..	40074b	73	1034	7.0	-68 11	6.06	5.6	Ao	10	..	40297b
24	1244	6.7	+58 29	6.86	6.92	A2	8	..	38638i	74	1155	7.0	-69 52	8.2	8.8	Go	4	5,4-	40297b
25	2061	6.7	+37 10	8.7	9.7	Ko	2	..	38241i	75	639	7.1	+66 54	9.1	10.5	Ma	1	..	38654i
26	3055	6.7	-13 47	8.1	9.2	K2	2	..	40247b	76	1852	7.1	+28 44	6.96	7.74	G5	5	..	38203i
27	3122	6.7	-21 1	9.3	10.4	K2	1	..	40313b	77	2317	7.1	+19 23	9.0	10.1	K2	1	..	37571i
28	8026	6.7	-31 50	9.6	10.2	A	1	..	40082b	78	3011	7.1	-5 43	7.85	8.19	F2	7	..	40281b
29	7125	6.7	-32 15	8.3	8.8	G5	4	..	40082b	79	3108	7.1	-13 4	8.7	9.2	F8	4	..	40247b
30	6008	6.7	-43 6	9.1	9.8	F5	1	..	40189b	80	8030	7.1	-31 13	8.2	9.0	A2	4	..	40082b
31	6006	6.7	-43 9	9.4	9.5	K	1	..	40189b	81	5846	7.1	-41 4	10.5	8.9	Ao	3	..	40276b
32	6262	6.7	-44 41	8.2	8.3	Ao	4	..	40189b	82	5022	7.1	-49 12	9.4	9.2	A	1	..	13040b
33	4868	6.7	-50 40	8.5	8.9	F5	4	..	38797b	83	2939	7.1	-56 26	9.0	9.4	A2	3	..	38797b
34	1194	6.7	-64 41	9.7	9.8	A2	2	..	40221b	84	2936	7.1	-56 47	8.5	9.4	Ko	2	..	38797b
35	613	6.7	-76 47	9.3	10.5	K5	1	..	21453b	85	1316	7.1	-63 16	9.2	9.3	A2	3	..	40221b
36	1995	6.8	+31 50	8.8	9.2	F5	3	..	38203i	86	2259	7.2	+7 10	8.5	9.3	G5	3	E	37724i
37	3049	6.8	-14 34	8.9	9.3	F5	4	..	40247b	87	2330	7.2	+3 15	8.9	9.9	Ko	3	..	19341b
38	3003	6.8	-21 31	9.8	10.0	F5	1	..	40303b	88	2305	7.2	-0 46	8.5	8.6	A3	7	..	19341b
39	9080	6.8	-23 23	9.8	10.0	Ao	2	..	40303b	89	2979	7.2	-7 20	8.5	8.8	Fo	4	..	40281b
40	8841	6.8	-24 41	9.2	9.8	Ko	2	..	40303b	90	2944	7.2	-19 21	9.8	10.3	Fo	1	..	40313b
41	8028	6.8	-31 33	9.0	10.8	K5	1	..	40082b	91	3124	7.2	-20 47	8.1	9.5	Ko	4	..	40313b
42	7129	6.8	-32 41	9.1	10.5	Ko	2	..	40082b	92	3006	7.2	-22 8	8.1	9.7	K2	4	..	40303b
43	1960	6.8	-58 42	9.1	9.2	A5	2	..	40105b	93	8032	7.2	-31 41	9.2	8.8	B9	3	..	40082b
44	614	6.8	-77 3	9.5	10.1	Go	2	..	21453b	94	6197	7.2	-36 18	8.3	9.5	K2	3	..	40276b
45	1174	6.9	+61 7	8.1	9.2	K2	3	..	37725i	95	6199	7.2	-37 4	8.62	9.8	Ko	4	..	40276b
46	2330	6.9	+17 48	8.0	8.5	F8	5	..	37571i	96	6259	7.2	-38 35	8.1	8.3	A2	5	..	40276b
47	2181	6.9	+16 50	9.0	9.6	Go	2	..	37724i	97	4878	7.2	-50 20	8.2	8.6	Ao	7	..	38797b
48	2626	6.9	+0 45	9.34	9.84	F8	5	..	19341b	98	4541	7.2	-52 6	9.0	8.6	Ao	4	..	38797b
49	3050	6.9	-14 55	9.3	9.9	Go	2	..	40313b	99	2942	7.2	-56 19	8.4	10.0	K5	2	..	38797b
50	3005	6.9	-21 31	9.8	10.3	Ko	1	..	40303b	100	1719	7.2	-60 9	..	10.1	Oa	1	..	38749b

THE HENRY DRAPER CATALOGUE.

88500

10^h 7^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2186	7.3	+10 48	9.3	9.4	A3	3	..	37724i	51	9095	7.6	-23 36	9.3	10.6	K2	1	..	40303b
2	2412	7.3	+1 18	9.3	9.9	Go	4	..	19341b	52	8859	7.6	-24 25	9.2	10.0	K2	2	..	40303b
3	2812	7.3	-4 34	8.9	9.9	Ko	1	..	13369b	53	8252	7.6	-30 25	9.3	10.7	Ko	1	..	40082b
4	7824	7.3	-25 58	9.0	9.4	A3	3	..	39939b	54	5384	7.6	-48 26	9.4	9.2	F	1	..	13040b
5	6260	7.3	-38 54	8.5	8.6	A2	6	..	40276b	55	5033	7.6	-49 30	8.9	8.6	B8	3	..	13040b
6	6194	7.3	-40 6	9.48	10.6	Ko	1	..	39922b	56	5032	7.6	-49 59	7.84	7.8	B3	7	..	38797b
7	5029	7.3	-49 11	9.6	9.3	A	1	..	13040b	57	3004	7.6	-55 36	8.4	9.4	Ko	2	..	38797b
8	4880	7.3	-50 30	8.6	9.6	K	1	..	38797b	58	976	7.6	-70 27	8.7	9.7	Ko	2	0,1	39946b
9	2947	7.3	-56 57	10.0	10.0	Ao	2	..	38797b	59	1997	7.7	+32 1	9.0	9.5	F8	2	..	37529i
10	1259	7.3	-66 6	7.4	8.4	Ko	7	..	40297b	60	2193	7.7	+21 56	8.0	8.3	F2	5	..	37571i
11	1036	7.3	-68 19	9.4	9.4	Ao	2	..	40297b	61	2305	7.7	+2 28	9.3	10.1	G5	2	..	19341b
12	1585	7.4	+51 0	6.63	6.71	A3	8	0,7-	38638i	62	3003	7.7	-15 23	8.8	10.0	K5	3	..	40313b
13	2100	7.4	+42 23	8.2	8.5	F2	2	..	38291i	63	2994	7.7	-16 31	9.8	10.6	G5	1	..	40313b
14	2331	7.4	+8 11	9.3	9.6	F2	3	..	37724i	64	2947	7.7	-19 19	9.3	9.5	A2	3	..	40313b
15	2302a	7.4	+2 24	10.7	11.1	F5	1	..	19341b	65	7136	7.7	-32 13	8.1	10.2	Ma	1	..	40082b
16	2413	7.4	+1 23	9.3	9.8	F8	3	..	19341b	66	6530	7.7	-34 43	9.1	10.1	K2	2	..	40276b
17	3017	7.4	-9 49	var.	var.	Mb	2	R	40281b	67	6358	7.7	-37 39	10.8	11.3	A	1	..	40276b
18	3020	7.4	-10 39	8.3	8.8	F8	6	..	40281b	68	6198	7.7	-39 30	7.46	8.3	Ko	7	..	40276b
19	3000	7.4	-15 41	8.1	9.5	Ma	3	..	40313b	69	5853	7.7	-40 22	7.00	8.1	Ko	5	..	40276b
20	3007	7.4	-21 47	9.1	9.5	F5	4	..	40303b	70	2770	7.7	-57 42	8.8	8.8	Ao	3	..	38749b
21	2861	7.4	-22 44	9.3	9.7	F8	2	..	40303b	71	1321	7.7	-63 29	8.1	8.1	Ao	2	..	34089b
22	7266	7.4	-28 6	6.10	7.3	Ao	9	..	39939b	72	1194	7.7	-66 46	6.7	6.7	B9	9	..	40297b
23	6737	7.4	-33 13	9.1	9.9	F8	2	..	40082b	73	1156	7.7	-69 44	8.7	9.7	Ko	1	0,1	39946b
24	6736	7.4	-33 50	6.74	7.3	F2	9	..	40082b	74	923	7.7	-71 31	9.6	9.7	A2	4	..	39946b
25	5382	7.4	-48 21	9.2	8.9	F	2	..	13040b	75	762	7.8	+65 13	8.5	9.3	G5	2	..	37346i
26	3420	7.4	-53 55	10.0	10.0	A	1	..	38797b	76	1358	7.8	+54 39	9.46	9.96	F8	1	..	38665i
27	1494	7.4	-61 22	9.3	10.7	Ma	..	..	M	77	2102	7.8	+42 19	8.5	9.3	G5	1	..	38291i
28	1319	7.4	-63 53	6.8	6.8	Ao	7	..	34089b	78	2305	7.8	+39 50	8.67	8.73	A2	2	E	38640i
29	380	7.5	+75 57	8.57	9.07	F8	4	..	37714i	79	2014	7.8	+29 14	9.7	10.2	F8	3	..	37529i
30	1245	7.5	+59 53	7.86	9.21	Mb	3	..	37725i	80	2185	7.8	+17 32	8.6	9.4	G5	2	..	37571i
31	1996	7.5	+31 52	8.0	8.4	F5	2	..	38203i	81	2333	7.8	+3 39	8.3	9.1	G5	6	..	19341b
32	2012	7.5	+28 47	8.6	9.6	Ko	1	..	38203i	82	2981	7.8	-7 22	8.1	8.7	Go	5	..	40281b
33	1855	7.5	+27 55	8.2	9.0	G5	2	..	38203i	83	2873	7.8	-8 52	8.9	9.4	F8	2	..	40281b
34	2190	7.5	+23 21	8.6	8.7	A2	4	..	37571i	84	2825	7.8	-11 32	8.5	8.8	Fo	3	..	40247b
35	3053	7.5	-15 0	9.6	9.9	F2	1	..	40313b	85	3055	7.8	-15 13	8.71	9.21	F8	3	..	40313b
36	3001	7.5	-15 35	8.1	8.2	A2	7	..	40313b	86	2869	7.8	-18 52	9.3	9.9	Go	1	..	40313b
37	2866	7.5	-19 3	8.3	8.7	F5	5	..	40313b	87	6743	7.8	-33 24	8.0	7.8	Fo	5	..	40082b
38	7739	7.5	-26 46	8.4	9.4	G5	3	..	39939b	88	6362	7.8	-37 58	10.3	11.3	Ko	1	..	39922b
39	6528	7.5	-34 50	7.05	8.7	Na	2	..	40276b	89	6199	7.8	-40 2	8.84	9.8	K2	3	..	40276b
40	6196	7.5	-39 23	11.0	10.4	Fo	1	..	39922b	90	6285	7.8	-44 13	7.0	8.2	G5	7	..	40189b
41	4882	7.5	-50 47	9.0	9.3	Ko	1	..	38797b	91	1216	7.8	-67 21	7.0	7.0	B8	9	..	40297b
42	1967	7.5	-58 39	7.33	7.6	Ao	7	1,9	31521b	92	3021	7.9	-10 42	9.2	10.2	Ko	2	..	40281b
43	1723	7.5	-60 27	9.0	9.0	Ao	4	..	38749b	93	3059	7.9	-14 7	9.3	10.1	G5	2	..	40247b
44	1459	7.5	-62 51	8.3	9.3	Ko	3	..	40221b	94	2995	7.9	-16 34	10.0	10.3	Fo	1	..	40313b
45	1443	7.6	+56 41	7.9	7.9	Ao	6	..	38638i	95	2870	7.9	-18 39	6.44	6.86	F5	10	..	40313b
46	2183	7.6	+17 2	8.3	8.9	Go	4	..	37571i	96	7139	7.9	-32 10	8.6	8.5	Fo	5	..	40082b
47	2301	7.6	+5 7	5.91	6.91	Ko	8	..	13402b	97	6202	7.9	-36 49	8.6	9.2	B8	6	..	40276b
48	2331	7.6	+3 37	8.7	9.5	G5	3	..	19341b	98	6363	7.9	-37 40	8.9	9.5	Ko	2	..	40276b
49	3054	7.6	-14 34	6.99	6.99	Ao	9	..	40247b	99	6364	7.9	-37 51	8.2	10.1	K5	2	..	40276b
50	2993	7.6	-16 38	9.3	10.5	K5	1	..	40313b	100	6269	7.9	-38 43	10.1	10.1	Ao	2	..	39922b

88600

10^h 7^m 9^s

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5836	m. 7.9	° -45 9	8.64	9.7	G5	3	..	40189b	51	1246	m. 8.3	° +60 31	var.	var.	Ma	7	R	37725i
2	5037	7.9	-49 19	9.0	8.9	Ao	2	..	13040b	52	2414	8.3	+ 0 56	8.74	9.02	Fo	8	..	19341b
3	5039	7.9	-49 39	7.5	7.8	B5	8	..	38797b	53	2308	8.3	- 0 26	8.3	8.8	F8	4	..	19341b
4	3246	7.9	-54 27	9.1	9.1	B9	3	..	38797b	54	2985	8.3	- 7 57	7.71	8.49	G5	5	..	40281b
5	2780	7.9	-57 33	8.4	9.1	Go	3	R	38749b	55	2871	8.3	-19 11	7.10	8.4	K5	7	..	40313b
6	1261	7.9	-57 33	8.7	8.7	Ao	3	..	40297b	56	7278	8.3	-28 0	8.6	10.1	G5	2	..	39939b
7	1217	7.9	-65 31	8.7	8.7	Ao	3	..	40297b	57	8263	8.3	-30 33	9.6	9.9	Ao	2	..	40082b
8	1359	8.0	+54 4	8.6	9.4	G5	2	..	38638i	58	6535	8.3	-34 44	9.5	9.5	F5	2	..	40276b
9	2272	8.0	+ 5 59	8.9	9.5	Go	3	..	13402b	59	6231	8.3	-35 44	8.3	10.1	K5	2	5,1	40276b
10	2334	8.0	+ 3 34	7.31	7.59	Fo	9	..	19341b	60	3261	8.3	-54 29	7.7	7.9	B9	7	..	38797b
11	3056	8.0	+ 2 51	..	..	A	1	..	19341b	61	2781	8.3	-57 34	6.12	6.5	B2p	6	R	42172b
12	3005	8.0	-14 26	9.1	9.4	Fo	4	..	40247b	62	1732	8.3	-60 15	9.48	9.8	Ko	1	..	38749b
13	3126	8.0	-15 36	10.2	11.0	G5	1	..	40313b	63	1734	8.3	-60 44	8.6	8.9	F5	4	..	38749b
14	8864	8.0	-24 38	8.3	8.9	Ko	4	..	40303b	64	924	8.3	-71 26	9.2	10.0	G5	1	..	39946b
15	7833	8.0	-26 4	9.0	9.8	Go	2	..	39939b	65	381	8.4	+76 20	9.0	9.4	F5	3	..	37714i
16	8047	8.0	-31 24	9.2	9.9	F8	2	..	40082b	66	2336	8.4	+ 3 10	8.5	9.6	K2	2	..	19341b
17	7140	8.0	-32 11	7.36	8.5	Ko	5	..	40082b	67	3105	8.4	- 6 29	8.1	9.1	Ko	5	..	40281b
18	6532	8.0	-34 34	8.8	9.5	Ko	3	..	40276b	68	3024	8.4	-10 43	9.8	9.8	Ao	2	..	40281b
19	1952	8.0	-59 15	9.0	9.5	A2	3	..	38749b	69	2996	8.4	-16 39	10.0	10.1	A2	1	..	40313b
20	1949	8.0	-59 28	9.0	10.1	K2	1	..	38749b	70	8051	8.4	-32 1	7.14	8.4	Ko	7	..	40082b
21	1950	8.0	-60 6	9.5	9.5	Ao	2	..	38749b	71	6039	8.4	-43 45	10.0	9.2	Ao	2	..	40189b
22	1496	8.0	-61 16	7.6	8.7	Ko	4	..	38749b	72	3269	8.4	-54 37	9.4	9.4	Ao	3	..	38797b
23	980	8.0	-70 34	8.9	10.3	Mb	2	0,1	39946b	73	1982	8.4	-58 21	9.2	9.3	A5	2	..	38749b
24	616	8.0	-76 10	9.3	10.4	K2	2	..	21453b	74	1738	8.4	-60 20	9.1	8.9	B9	3	..	38749b
25	..	8.1	+77 36	..	..	R5	..	..	M	75	1043	8.4	-68 55	9.3	9.4	A2	3	..	40297b
26	1116	8.1	+62 27	9.6	10.2	G	1	..	37725i	76	589	8.4	-78 4	8.8	9.8	Ko	4	..	21453b
27	1729	8.1	+50 16	9.1	9.5	F5	1	E	38638i	77	2000	8.5	+31 56	8.0	8.3	Fo	4	..	38203i
28	1811	8.1	+45 37	7.9	9.0	K2	4	..	38291i	78	2017	8.5	+28 53	8.8	9.4	Go	2	..	37529i
29	2982	8.1	- 7 30	8.6	9.4	G5	3	..	40281b	79	2221	8.5	+14 23	9.3	9.4	A3	3	..	37724i
30	7834	8.1	-25 16	10.40	10.1	Fo	1	..	40303b	80	2190	8.5	+11 21	8.1	8.9	G5	4	..	37724i
31	6203	8.1	-39 32	10.8	10.1	A2	2	..	39922b	81	2415	8.5	+ 1 1	10.7	11.0	F2	1	..	19341b
32	1974	8.1	-58 34	9.6	9.6	Ao	2	..	38749b	82	2817	8.5	- 4 35	7.50	7.84	F2	7	..	13369b
33	1325	8.1	-63 54	8.3	8.4	A2	5	..	40221b	83	3059	8.5	-15 12	8.01	8.01	Ao	6	..	40313b
34	340	8.2	+77 57	9.0	9.8	G5	2	0,2	37714i	84	2950	8.5	-19 28	9.3	9.7	F5	2	..	40313b
35	409	8.2	+75 42	8.57	9.35	G5	3	..	37714i	85	8053	8.5	-31 23	9.8	9.9	G5	1	..	40082b
36	1360	8.2	+54 16	8.1	8.9	G5	4	..	38638i	86	3272	8.5	-54 48	10.3	10.3	A	1	..	38797b
37	1862	8.2	+27 39	6.10	6.88	G5	7	..	38203i	87	3030	8.5	-56 1	9.0	10.0	Ko	1	..	38797b
38	2317	8.2	+ 9 41	7.52	8.30	G5	6	..	37724i	88	1984	8.5	-58 39	7.57	8.1	A2	6	1,8	31521b
39	2302	8.2	+ 5 47	9.3	10.1	G5	2	..	13402b	89	1204	8.5	-64 30	8.4	9.5	K2	3	..	40221b
40	9100	8.2	-23 19	10.3	10.3	Fo	1	..	40303b	90	2171	8.6	+12 11	8.5	9.0	F8	3	..	37724i
41	7991	8.2	-29 0	7.42	8.5	G5	5	..	39939b	91	2987	8.6	- 7 35	9.8	10.3	F8	1	..	40281b
42	5400	8.2	-48 17	8.4	8.4	B9	5	..	13040b	92	6043	8.6	-43 31	8.2	8.3	K2	3	..	40189b
43	3257	8.2	-54 46	10.0	10.0	B8	2	..	38797b	93	4560	8.6	-51 40	6.42	8.0	Ko	..	0,9	56,128
44	3021	8.2	-55 30	8.3	8.2	B8	6	..	38797b	94	1985	8.6	-58 27	8.28	8.9	B	4	..	38749b
45	1979	8.2	-58 20	6.16	8.3	Mb	6	5,8	31521b	95	1742	8.6	-61 2	7.00	7.0	B8	7	0,7	34089b
46	1955	8.2	-59 23	9.1	9.2	B8	3	..	38749b	96	1163	8.6	-69 9	9.1	9.1	Ao	2	..	40297b
47	1501	8.2	-61 50	9.0	10.3	K5	2	..	40221b	97	3109	8.7	- 6 53	7.32	7.82	F8	9	..	40281b
48	672	8.2	-75 3	9.7	10.8	K2	1	..	21453b	98	3025	8.7	- 9 17	8.5	9.6	K2	3	..	40281b
49	99	7752	8.7	-26 32	6.21	7.4	Fo	8	..	39939b
50	100	6236	8.7	-35 34	8.3	9.5	Ko	3	5,2	40276b

THE HENRY DRAPER CATALOGUE.

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10^h 8^m 7^s

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6209	m. 8.7	° -37 0	9.1	9.8	B9	4	..	40276b	51	3110	m. 9.1	° -6 47	9.6	10.7	K2	1	..	40281b
2	5864	8.7	-40 8	8.64	8.9	G5	3	..	40276b	52	7291	9.1	-27 28	8.4	10.1	Ko	1	..	39939b
3	5048	8.7	-49 46	9.4	8.7	A2	4	..	38797b	53	5870	9.1	-40 12	11.0	10.7	Go	1	..	39922b
4	1222	8.7	-67 23	7.3	8.3	Ko	7	..	40297b	54	6042	9.1	-42 59	8.8	10.1	K2	2	..	40189b
5	189	8.7	-86 25	7.26	9.0	K5	6	..	13459b	55	5655	9.1	-47 25	7.1	8.6	K5	4	..	13040b
6	1372	8.8	+55 12	8.5	9.7	K5	2	..	38638i	56	3444	9.1	-54 4	8.2	8.5	Ko	5	2,3	40097b
7	2172	8.8	+12 14	9.7	10.3	G	2	..	37724i	57	3048	9.1	-55 17	9.18	8.8	B8	5	..	38797b
8	2416	8.8	+0 59	10.7	11.8	K2	1	..	19341b	58	1052	9.1	-68 17	9.3	9.4	A2	1	..	40297b
9	2819	8.8	-4 43	7.40	7.46	A2	8	..	13369b	59	1250	9.2	+60 39	6.75	7.09	F2	9	..	37725i
10	3091	8.8	-18 6	9.3	9.9	Go	2	..	40313b	60	2203	9.2	+24 23	9.2	9.2	A	3	E	37571i
11	8267	8.8	-30 57	9.8	10.5	Ko	1	..	40082b	61	2100	9.2	+16 44	9.7	10.1	F5	1	..	37571i
12	6376	8.8	-37 44	10.5	10.7	F2	2	..	39922b	62	2307	9.2	+1 57	9.0	9.4	F5	4	..	19341b
13	6295	8.8	-44 40	8.9	8.8	Fo	4	..	40189b	63	2632	9.2	+0 9	10.7	11.1	F5	2	..	19341b
14	4910	8.8	-50 53	9.1	9.2	F5	2	R	38797b	64	2989	9.2	-7 30	7.06	8.06	Ko	7	..	40281b
15	3437	8.8	-53 40	9.1	9.4	A3	2	..	38797b	65	2990	9.2	-7 49	9.6	10.1	F8	1	..	40281b
16	1988	8.8	-59 6	7.9	8.6	Go	5	2,7-	40105b	66	3062	9.2	-14 14	8.0	8.1	A2	8	..	40247b
17	1966	8.8	-59 38	9.5	9.5	B8	3	..	38749b	67	2869	9.2	-22 35	7.72	8.2	Ko	6	..	40303b
18	1327	8.8	-63 19	7.9	8.0	A2	3	..	34089b	68	9111	9.2	-23 45	9.3	10.0	Ko	2	..	40303b
19	1329	8.8	-63 55	8.6	8.7	A3	5	..	40221b	69	6213	9.2	-39 8	8.8	9.3	Fo	4	..	40276b
20	1224	8.8	-67 29	9.6	9.6	Ao	2	..	40297b	70	5658	9.2	-47 54	9.8	10.3	G5	1	..	38573b
21	1164	8.8	-69 10	8.0	9.1	K2	4	..	40297b	71	4916	9.2	-50 15	9.39	9.2	F2	2	..	38797b
22	227	8.8	-85 28	9.7	9.8	A3	3	..	22238b	72	3355	9.2	-52 57	8.6	9.2	K5	2	..	38797b
23	2117	8.9	+38 27	8.3	8.8	F8	3	..	38673i	73	3053	9.2	-55 39	7.6	8.5	B8	8	..	38797b
24	2192	8.9	+11 0	9.3	9.9	G	2	..	37724i	74	930	9.2	-71 58	9.3	9.7	F5	2	..	39946b
25	2338	8.9	+3 39	7.7	8.3	Go	8	..	19341b	75	1847	9.3	+47 52	7.68	8.24	Go	5	..	38291i
26	2873	8.9	-3 38	7.9	8.9	Ko	2	..	13369b	76	2189	9.3	+17 18	10.0	10.3	F	2	..	37571i
27	3093	8.9	-18 5	10.0	10.6	Go	1	..	40313b	77	2953	9.3	-19 14	10.0	10.0	Fo	1	..	40313b
28	2872	8.9	-18 40	9.1	10.2	K2	2	..	40313b	78	3010	9.3	-21 39	8.5	9.7	Ko	4	..	40303b
29	8184	8.9	-29 55	7.7	9.3	Ko	4	..	40082b	79	5873	9.3	-40 23	11.0	10.6	Ao	1	..	39922b
30	6378	8.9	-37 31	9.9	10.7	Fo	2	..	39922b	80	6044	9.3	-42 29	9.0	9.9	G5	1	..	40189b
31	6046	8.9	-43 17	9.0	9.5	K5	1	..	40189b	81	6057	9.3	-43 55	8.9	9.5	Ko	2	..	40189b
32	4912	8.9	-50 55	9.0	8.9	A3	4	..	38797b	82	4919	9.3	-50 36	8.8	8.9	B8	4	..	38797b
33	1967	8.9	-59 27	8.9	9.0	B9	5	..	38749b	83	4573	9.3	-51 53	10.5	9.5	Ao	2	..	38797b
34	1225	8.9	-67 47	9.7	9.7	A	1	..	40297b	84	1265	9.3	-65 41	7.8	9.0	K5	4	..	40297b
35	382	9.0	+76 9	9.4	9.5	A3	3	..	37714i	85	2104	9.4	+42 22	8.24	8.58	F2	5	..	38291i
36	1248	9.0	+59 51	8.11	8.89	G5	3	..	37725i	86	2005	9.4	+31 58	6.56	7.34	G5	6	..	38203i
37	2165	9.0	+21 41	6.12	6.54	F5	8	..	37571i	87	3018	9.4	-6 4	9.3	10.1	G5	2	..	40281b
38	2417	9.0	+1 38	10.7	11.5	G5	2	..	19341b	88	2829	9.4	-12 5	8.1	8.4	Fo	4	..	40247b
39	2821	9.0	-4 27	8.8	9.2	F5	1	..	13369b	89	2999	9.4	-16 40	9.6	9.7	A2	2	..	40313b
40	3061	9.0	-14 46	9.1	10.1	Ko	2	..	40247b	90	3012	9.4	-21 33	8.8	10.3	K5	1	R	40303b
41	8269	9.0	-31 3	8.3	9.4	Ko	3	..	40082b	91	6218	9.4	-36 56	10.5	10.4	A3	2	..	39922b
42	7158	9.0	-32 32	6.44	7.6	Go	9	..	40082b	92	5698	9.4	-41 44	9.1	9.2	K2	3	..	40276b
43	6213	9.0	-37 3	10.1	10.7	A3	2	..	39922b	93	5060	9.4	-50 7	7.99	8.6	K2	4	..	38797b
44	6379	9.0	-37 52	9.7	10.4	Go	2	..	40276b	94	3292	9.4	-54 32	9.7	9.7	Ao	2	..	38797b
45	6285	9.0	-38 16	10.3	11.1	Ao	1	..	39922b	95	1474	9.4	-63 2	8.5	9.5	Ko	4	..	40221b
46	5923	9.0	-46 59	8.4	8.2	Ko	3	..	13040b	96	1226	9.4	-67 48	9.4	9.5	A3	1	..	40297b
47	617	9.0	-76 21	9.6	10.4	G5	1	..	21453b	97	1168	9.4	-69 12	8.8	8.8	B9	5	..	40297b
48	2099	9.1	+16 39	7.31	8.31	Ko	5	..	37571i	98	675	9.4	-74 23	9.1	9.9	G5	2	..	21453b
49	2339	9.1	+3 43	9.7	10.2	F8	1	..	19341b	99	519	9.4	-78 17	9.1	9.1	B8	7	..	21453b
50	2631	9.1	-0 3	10.0	10.5	F8	2	..	19341b	100	1258	9.5	+57 2	8.6	9.6	Ko	2	..	37725i

88800

10^h 9^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2127	9.5	+10 7	9.5	10.1	Go	2	..	37724i	51	1251	9.8	+59 53	8.71	9.13	F5	2	..	37725i
2	2276	9.5	+6 16	8.1	9.1	Ko	5	..	13402b	52	2192	9.8	+17 21	8.1	8.9	G5	3	..	37571i
3	2312	9.5	-0 37	8.1	9.2	K2	7	..	19341b	53	2177	9.8	+12 11	7.33	8.11	G5	6	..	37724i
4	3094	9.5	-17 24	8.8	9.8	Ko	2	..	40313b	54	2309	9.8	+2 24	9.3	9.8	F8	2	..	19341b
5	3095	9.5	-17 32	9.6	9.9	F2	1	..	40313b	55	3116	9.8	-6 43	9.3	9.9	Go	2	..	40281b
6	9119	9.5	-23 19	6.66	8.5	Ma	8	..	40303b	56	3119	9.8	-13 3	8.7	9.5	G5	3	..	40247b
7	6385	9.5	-37 32	8.1	9.5	G5	4	..	40276b	57	3065	9.8	-13 47	8.8	9.6	G5	2	..	40247b
8	6221	9.5	-39 49	11.0	9.8	Ao	2	..	40276b	58	6391	9.8	-37 56	9.5	10.4	Ao	1	..	40276b
9	6222	9.5	-39 51	5.96	7.6	Ko	..	0,8	56,128	59	6056	9.8	-42 46	8.9	10.4	K5	1	..	40189b
10	5875	9.5	-40 31	9.7	9.5	B9	2	..	40276b	60	5066	9.8	-49 17	9.6	9.2	B9	1	..	13040b
11	6049	9.5	-42 33	8.6	9.5	Ko	3	..	40189b	61	4581	9.8	-51 34	9.8	9.3	F5	2	..	38797b
12	4922	9.5	-50 24	9.4	8.6	A2	6	..	38797b	62	3066	9.8	-56 5	6.8	8.0	K2	7	0,8	38797b
13	4923	9.5	-50 24	8.5	9.0	K	1	..	38797b	63	2997	9.8	-56 58	9.0	8.9	B9	4	..	38749b
14	2804	9.5	-58 7	10.3	10.3	B9	1	..	38749b	64	1335	9.8	-63 54	8.0	8.6	Go	5	..	40221b
15	489	9.6	+73 35	6.48	6.76	Fo	9	..	37714i	65	603	9.9	+70 30	8.3	8.6	F2	5	..	37706i
16	765	9.6	+65 11	9.1	9.2	A2	1	..	37346i	66	2418	9.9	+1 19	8.3	9.4	K2	7	..	19341b
17	1590	9.6	+50 51	8.3	9.5	K5	1	E	38638i	67	3021	9.9	-5 44	8.7	9.2	F8	4	..	40281b
18	2305	9.6	+5 40	9.0	9.1	A5	3	..	13402b	68	2879	9.9	-8 14	8.5	8.9	F5	4	..	40281b
19	8074	9.6	-31 17	9.0	9.6	F8	2	..	40082b	69	2832	9.9	-11 36	9.1	9.4	Fo	2	..	40247b
20	6386	9.6	-37 29	9.5	9.5	A2	4	..	40276b	70	3066	9.9	-13 27	9.3	10.4	K2	1	..	40247b
21	6223	9.6	-39 18	9.7	10.4	Ko	1	..	39922b	71	3013	9.9	-21 14	7.9	8.1	A2	5	..	40313b
22	6223	9.6	-39 18	9.7	10.4	Fo	3	R	39922b	72	6302	9.9	-38 36	6.60	7.7	Ko	8	..	40276b
23	6052	9.6	-42 41	9.0	9.9	Ko	2	..	40189b	73	6303	9.9	-38 50	7.45	8.3	K5	4	..	40276b
24	4924	9.6	-50 44	5.54	6.0	A5	..	5,10	56,128	74	6068	9.9	-43 35	7.6	7.6	Ao	7	..	40189b
25	1974	9.6	-59 25	6.40	5.9	B3	8	1,R	34089b	75	5933	9.9	-46 13	7.9	8.8	Fo	4	..	13040b
26	1209	9.6	-64 21	9.1	9.2	A2	3	..	40221b	76	5672	9.9	-47 31	8.6	8.3	F2	5	..	13040b
27	1267	9.6	-65 47	7.9	8.0	A5	7	..	40297b	77	3372	9.9	-52 44	7.7	7.8	Ao	7	..	38797b
28	1259	9.7	+57 16	8.3	8.8	F8	4	..	37725i	78	2812	9.9	-57 11	8.7	10.0	Ko	2	..	38749b
29	2322	9.7	+19 37	8.0	8.3	F2	4	..	37571i	79	2810	9.9	-57 52	8.6	9.1	B	4	..	38749b
30	2324	9.7	+9 44	7.87	8.29	F5	5	..	37724i	80	1245	10.0	+58 8	9.4	10.2	G5	2	..	37725i
31	2633	9.7	+0 13	8.9	9.4	F8	5	..	19341b	81	2833	10.0	-11 31	7.18	7.60	F5	8	..	40247b
32	3097	9.7	-2 22	7.9	8.0	A5	5	..	38242b	82	3121	10.0	-12 58	9.3	9.6	F2	1	..	40247b
33	3019	9.7	-5 56	9.8	9.9	A5	2	..	40281b	83	2874	10.0	-22 20	9.1	8.9	Fo	4	..	40303b
34	6296	9.7	-38 50	9.2	8.9	F2	3	..	40276b	84	8893	10.0	-24 37	10.5	10.5	F8	1	..	40303b
35	6226	9.7	-39 23	10.8	10.1	Ao	2	..	40276b	85	7766	10.0	-26 32	9.5	10.1	G5	1	..	39939b
36	6225	9.7	-39 48	6.33	7.5	Ko	..	0,8	56,128	86	6556	10.0	-34 45	8.2	9.2	A5	5	..	40276b
37	5700	9.7	-41 29	8.8	9.5	K2	4	..	40276b	87	6249	10.0	-35 26	9.5	10.1	Ao	3	..	39922b
38	6066	9.7	-43 46	9.8	9.4	F2	2	..	40189b	88	6394	10.0	-37 39	9.5	11.0	Ma	1	..	39922b
39	5930	9.7	-46 13	8.6	8.6	Ao	3	..	13040b	89	6305	10.0	-38 22	8.5	9.9	K5	2	..	40276b
40	5932	9.7	-47 6	9.2	8.9	A2	3	..	13040b	90	3073	10.0	-55 17	8.9	9.7	G5	3	..	38797b
41	5062	9.7	-49 58	8.04	8.6	Ko	5	..	38797b	91	2816	10.0	-57 26	9.7	9.7	Ao	2	..	38749b
42	4578	9.7	-51 15	6.04	6.7	A2	..	0,10	56,128	92	2010	10.0	-58 43	9.0	8.9	B8	6	..	38749b
43	3065	9.7	-55 46	8.9	9.7	K2	1	..	38797b	93	1516	10.0	-61 47	9.5	9.5	Ao	2	..	40221b
44	1765	9.7	-60 41	8.2	8.6	B8	4	..	38749b	94	1212	10.0	-64 40	6.9	6.9	B9	8	..	40221b
45	1334	9.7	-63 43	8.3	9.3	Ko	3	..	40221b	95	1260	10.1	+57 25	8.7	9.1	F5	3	..	37725i
46	1201	9.7	-66 11	8.0	9.2	K5	5	..	40297b	96	1756	10.1	+47 27	8.1	9.2	K2	3	..	38291i
47	1231	9.7	-67 34	8.5	8.9	F5	6	..	40297b	97	1967	10.1	+44 35	8.3	9.1	G5	2	..	38291i
48	678	9.7	-75 1	8.8	9.3	F8	5	..	21453b	98	3024	10.1	-5 55	9.1	10.1	Ko	2	..	40281b
49	534	9.8	+71 34	6.58	6.66	A3	9	R	38663i	99	3067	10.1	-13 18	8.8	10.2	Ma	1	..	40247b
50	534	9.8	+71 34	7.20	7.28	A3	9	R	38663i	100	3066	10.1	-14 28	9.2	9.7	F8	2	..	40247b

THE HENRY DRAPER CATALOGUE.

88900

10^h 10^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3099	10.1	— 17 37	9.2	9.6	F5	3	..	40313b	51	3025	10.5	— 5 30	9.3	10.4	K2	2	..	40281b
2	0125	10.1	— 24 4	9.5	9.5	A5	3	..	40303b	52	3016	10.5	— 21 37	9.6	10.4	K5	1	..	40303b
3	8084	10.1	— 31 55	9.8	10.0	A5	1	..	40082b	53	8903	10.5	— 24 29	8.4	9.1	K5	4	..	40303b
4	6396	10.1	— 37 50	9.1	9.5	G5	4	..	40276b	54	6563	10.5	— 34 26	8.8	9.5	Fo	3	..	40276b
5	6059	10.1	— 42 18	7.6	7.9	B9	8	..	40189b	55	5713	10.5	— 41 38	4.09	4.15	A2	..	R	28,204
6	3075	10.1	— 55 12	10.0	10.0	Ao	2	..	38797b	56	6063	10.5	— 42 11	10.0	9.5	Ao	3	..	40189b
7	1517	10.1	— 61 9	6.48	6.4	B3	..	2,8	28,204	57	92	10.5	— 88 10	9.5	9.5	A	2	..	13459b
8	696	10.1	— 73 58	8.4	9.0	Go	6	..	21453b	58	1377	10.6	+ 55 27	9.4	10.4	Ko	1	..	38638i
9	2002	10.2	+ 43 19	8.1	8.6	F8	4	..	38291i	59	2066	10.6	+ 41 47	7.32	7.74	F5	7	..	38291i
10	2194	10.2	+ 22 2	8.6	9.0	F5	3	..	37571i	60	1981	10.6	+ 29 48	5.35	5.35	Ao	..	0,9	56,87
11	2307	10.2	+ 5 44	9.0	10.0	Ko	2	..	13402b	61	1862	10.6	+ 27 59	9.6	10.2	G	1	..	37529i
12	3067	10.2	— 14 33	9.3	10.3	Ko	1	..	40247b	62	2104	10.6	+ 15 55	8.5	9.0	F8	2	..	37571i
13	3014	10.2	— 21 43	9.1	9.8	Ko	2	..	40303b	63	7174	10.6	— 32 54	8.5	8.4	Ao	3	..	40082b
14	8896	10.2	— 24 54	9.8	10.5	K2	1	..	40303b	64	6788	10.6	— 33 24	9.5	10.0	F2	1	..	40082b
15	8019	10.2	— 28 19	9.2	9.5	A3	2	..	39939b	65	6787	10.6	— 33 51	9.2	9.4	A2	3	..	40082b
16	8275	10.2	— 30 19	7.85	8.1	A2	7	..	40082b	66	5717	10.6	— 41 53	7.7	7.6	B9	8	..	40189b
17	5437	10.2	— 48 13	7.9	8.7	Go	3	..	13040b	67	6320	10.6	— 44 23	8.5	8.3	A2	4	..	40189b
18	..	10.2	— 60 23	var.	var.	Md	..	R	M	68	5683	10.6	— 47 47	9.6	8.9	Ao	3	..	13040b
19	1520	10.2	— 61 35	8.7	8.9	A2	4	..	40221b	69	5078	10.6	— 50 5	9.8	9.2	A2	2	..	38797b
20	1519	10.2	— 62 0	8.1	8.6	B8	6	..	40221b	70	3332	10.6	— 54 38	8.3	8.2	B5	5	..	38797b
21	1178	10.3	+ 61 46	9.0	10.0	Ko	1	..	37725i	71	2834	10.6	— 57 13	9.4	9.4	Ao	4	..	38749b
22	1375	10.3	+ 55 15	8.8	9.1	F2	3	..	38638i	72	3027	10.7	— 10 41	8.1	8.4	Fo	8	..	40281b
23	1609	10.3	+ 45 57	7.74	8.08	F2	6	R	38291i	73	2959	10.7	— 19 24	9.8	10.1	Ko	1	..	40313b
24	2122	10.3	+ 35 41	7.32	7.38	A2	7	..	38673i	74	6242	10.7	— 39 45	10.8	10.4	G5	1	..	39922b
25	2105	10.3	+ 34 18	8.8	9.9	K2	1	..	38673i	75	6243	10.7	— 39 59	10.3	10.4	G5	1	..	39922b
26	2835	10.3	— 11 17	7.38	7.38	Ao	9	..	40247b	76	5716	10.7	— 41 13	6.72	7.5	Ao	10	..	40276b
27	8898	10.3	— 25 3	9.05	9.2	K2	3	..	39939b	77	5718	10.7	— 42 3	8.9	9.5	Ko	2	..	40189b
28	7768	10.3	— 26 39	10.5	10.0	Fo	1	..	39939b	78	4592	10.7	— 51 18	7.5	7.7	B5	7	..	38797b
29	7769	10.3	— 26 49	9.3	9.7	K2	2	..	39939b	79	3492	10.7	— 53 10	10.0	10.0	A	1	..	38797b
30	6253	10.3	— 35 52	9.7	10.1	Fo	3	..	39922b	80	1341	10.7	— 63 24	8.9	9.2	Fo	4	..	40221b
31	6229	10.3	— 36 8	8.5	9.2	Fo	4	..	40276b	81	1273	10.7	— 65 52	5.37	5.6	A3	..	0, R	56,128
32	6233	10.3	— 39 51	10.8	10.4	F8	1	..	39922b	82	639	10.7	— 75 40	9.8	9.9	A2	3	..	21453b
33	3322	10.3	— 54 25	9.4	9.4	A	2	..	38797b	83	767	10.8	+ 65 36	5.74	5.82	A3	..	0, 10	56,87
34	1976	10.3	— 59 46	7.9	7.7	Ao	5	0,6	34089b	84	1850	10.8	+ 47 49	7.30	7.72	F5	7	..	38291i
35	1814	10.4	+ 45 33	7.39	7.81	F5	6	..	38291i	85	1758	10.8	+ 47 18	8.8	9.6	G5	3	..	38291i
36	2225	10.4	+ 13 57	9.3	9.6	Fo	3	..	37724i	86	2021	10.8	+ 29 10	6.51	7.07	Go	6	..	38203i
37	2340	10.4	+ 2 51	10.0	10.6	G	1	..	19341b	87	2338	10.8	+ 18 14	6.56	6.84	Fo	9	..	37571i
38	3117	10.4	— 6 41	9.1	10.1	Ko	3	..	40281b	88	2181	10.8	+ 12 11	9.3	9.9	G	2	..	37724i
39	3013	10.4	— 15 25	9.6	9.7	A2	1	..	40313b	89	2365	10.8	— 1 31	8.3	9.3	Ko	3	..	38242i
40	8899	10.4	— 24 51	8.60	9.2	K2	4	..	39939b	90	2366	10.8	— 1 55	8.7	9.5	G5	1	..	38242i
41	6234	10.4	— 39 14	11.9	10.6	Ao	1	..	39922b	91	2879	10.8	— 18 26	8.00	8.34	F2	6	..	40313b
42	6076	10.4	— 43 7	9.4	8.9	F5	2	..	40189b	92	8907	10.8	— 24 51	9.6	10.1	Ko	1	..	40303b
43	5679	10.4	— 47 40	9.6	10.3	K5	1	..	38573b	93	7877	10.8	— 25 15	9.5	9.7	Fo	3	..	40303b
44	5075	10.4	— 50 2	9.0	9.6	K5	1	..	38797b	94	5719	10.8	— 42 7	10.8	9.6	Go	2	..	40189b
45	3325	10.4	— 54 29	7.7	7.8	B3	..	2,7	56,128	95	6082	10.8	— 43 58	6.65	7.9	Ko	6	..	40189b
46	..	10.4	— 58 21	var.	var.	Md	..	R	M	96	1783	10.8	— 60 45	8.8	9.5	A5	3	..	38749b
47	1172	10.4	— 69 19	8.7	9.7	Ko	3	..	40297b	97	1205	10.8	— 66 16	8.6	9.8	K5	1	..	40297b
48	336	10.4	— 83 35	7.31	7.8	G5	3	5,7	11010b	98	491	10.9	+ 72 57	7.7	8.7	Ko	6	0,7	37706i
49	1962	10.5	+ 33 40	8.4	9.5	K2	1	..	38673i	99	1447	10.9	+ 56 24	7.36	8.43	K2	5	..	38638i
50	2266	10.5	+ 7 25	8.9	9.5	Go	1	..	13402b	100	2063	10.9	+ 25 49	8.4	8.9	F8	3	..	37529i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

89000

10^h 10^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2182	10.9	+11 56	9.7	10.3	G	1	..	37724i	51	939	11.2	-71 29	9.5	10.3	G5	2	..	39946b
2	2279	10.9	+ 6 26	9.3	9.7	F5	1	..	13402b	52	2006	11.3	+43 9	8.7	9.2	F8	2	..	38291i
3	2960	10.9	-19 20	9.3	9.5	Ko	3	..	40313b	53	2108	11.3	+41 58	6.88	8.23	Ma	5	..	38291i
4	5722	10.9	-41 51	8.8	8.6	Ao	4	..	40189b	54	1983	11.3	+30 12	8.9	10.3	Ma	1	..	37529i
5	6070	10.9	-42 11	9.0	9.8	G5	2	..	40189b	55	2065	11.3	+26 22	7.54	8.10	Go	4	..	38203i
6	5690	10.9	-47 31	10.0	9.5	Ao	2	..	38573i	56	2228	11.3	+14 13	5.74	7.09	Ma	10	..	37724i
7	3339	10.9	-54 47	7.98	8.2	G5	4	5.3	38797b	57	3028	11.3	- 5 20	7.60	7.58	B9	7	..	40281b
8	1983	10.9	-59 38	9.1	9.2	A3	2	..	38749b	58	3102	11.3	-18 10	9.6	10.7	K2	1	..	40313b
9	1276	10.9	-65 12	7.94	7.6	Ao	6	..	40297b	59	3018	11.3	-22 9	9.2	9.0	Ao	3	..	40303b
10	2207	11.0	+24 0	5.91	6.47	Go	8	0.6	37571i	60	8102	11.3	-31 40	7.8	9.6	Ma	3	..	40082b
11	2306	11.0	+ 4 3	8.3	9.3	Ko	5	..	19341b	61	6321	11.3	-38 59	10.3	10.1	F2	3	..	39922b
12	2827	11.0	- 4 35	8.1	9.1	Ko	3	..	13369b	62	6074	11.3	-42 36	5.77	7.7	K2	..	3,8	56,128
13	3071	11.0	-13 47	9.3	9.9	Go	1	..	40247b	63	5460	11.3	-48 58	9.6	10.1	Mb	..	..	M
14	3100	11.0	-17 55	9.2	9.6	F5	2	..	40313b	64	3404	11.3	-52 44	8.4	8.1	Ao	4	..	38797b
15	6260	11.0	-36 1	6.25	7.8	Ko	8	..	40276b	65	3112	11.3	-55 59	8.4	8.6	Ao	5	2.5	40250b
16	5083	11.0	-49 24	8.6	9.2	G5	1	..	13040b	66	1222	11.3	-64 58	8.34	9.2	K2	3	..	40297b
17	1785	11.0	-60 32	9.5	9.5	A	1	..	38749b	67	940	11.3	-71 10	7.6	7.9	Fo	6	..	22988b
18	1062	11.0	-68 36	8.1	9.2	K2	5	..	40297b	68	682	11.3	-74 21	8.6	9.7	K2	4	..	21453b
19	1179	11.1	+61 19	9.0	10.1	K2	1	..	37725i	69	329	11.4	+79 17	8.1	8.1	Aop	4	1.4	37714i
20	1307	11.1	+52 48	8.1	8.6	F8	3	..	38638i	70	1819	11.4	+45 33	8.3	9.1	G5	3	..	38291i
21	2005	11.1	+43 25	3.52	3.58	A2	..	R	1772c	71	2342	11.4	+ 2 55	8.6	9.6	Ko	3	..	19341b
22	2331	11.1	+39 1	8.8	9.6	G5	1	..	38673i	72	2830	11.4	- 4 45	8.9	9.9	Ko	1	..	13369b
23	1866	11.1	+27 37	9.3	10.3	Ko	1	..	37529i	73	3103	11.4	-18 12	9.1	10.1	Ko	3	..	40313b
24	2064	11.1	+25 53	6.01	7.01	Ko	7	..	38203i	74	7887	11.4	-26 0	9.2	9.2	Fo	3	..	39939b
25	2209	11.1	+23 55	3.65	3.93	Fo	..	2,R	2524c	75	7888	11.4	-26 5	8.6	8.5	B9	5	..	39939b
26	2316	11.1	- 1 5	8.5	9.7	K5	6	..	19341b	76	6326	11.4	-38 47	8.18	8.9	Fo	5	..	40276b
27	3027	11.1	- 5 48	9.8	10.1	Fo	2	..	40281b	77	3352	11.4	-55 3	6.74	8.0	Ko	7	..	40250b
28	6799	11.1	-33 44	9.2	9.6	Fo	2	..	40082b	78	3033	11.4	-56 10	9.3	10.3	K	1	..	38797b
29	3107	11.1	-55 45	7.4	8.9	Ko	4	0.3	38797b	79	1344	11.4	-64 2	7.9	8.0	A2	6	..	40221b
30	937	11.1	-71 55	9.2	10.3	K2	1	..	39946b	80	1178	11.4	-69 32	3.56	3.51	B8	..	R	28,204
31	2224	11.2	+24 57	8.26	9.26	Ko	2	E	37529i	81	640	11.4	-75 34	7.8	8.1	Fo	8	..	21453b
32	2877	11.2	- 3 25	8.7	9.2	F8	2	..	13369b	82	523	11.4	-79 5	8.9	10.0	K2	3	..	21453b
33	3029	11.2	-10 42	6.17	7.17	Ko	10	..	40281b	83	1963	11.5	+33 3	9.3	10.3	Ko	1	..	38673i
34	3028	11.2	-10 58	8.9	9.0	A3	4	..	40247b	84	1984	11.5	+30 3	8.8	9.6	G5	2	..	37529i
35	7788	11.2	-26 57	9.6	10.0	G5	1	..	39939b	85	2226	11.5	+25 38	8.8	8.8	Ao	2	..	38203i
36	8292	11.2	-30 42	8.0	8.1	Ao	6	..	40082b	86	2197	11.5	+22 26	7.46	7.88	F5	5	..	37571i
37	8290	11.2	-30 59	8.4	9.9	K5	3	..	40082b	87	2369	11.5	- 2 6	8.27	9.27	Ko	2	..	38242i
38	8291	11.2	-31 6	9.8	10.7	G5	1	..	40082b	88	3018	11.5	-15 38	7.25	8.25	Ko	7	..	40313b
39	7182	11.2	-32 46	8.6	9.3	F8	1	..	40082b	89	3004	11.5	-16 55	8.3	9.4	K2	3	..	40313b
40	6801	11.2	-34 0	9.1	9.3	F2	3	..	40082b	90	7328	11.5	-28 7	7.34	8.3	F8	7	..	39939b
41	6574	11.2	-34 59	8.12	9.5	K2	3	..	40276b	91	6248	11.5	-39 7	10.1	10.4	Ko	1	..	39922b
42	5887	11.2	-40 51	9.9	9.9	A5	2	..	40276b	92	6249	11.5	-39 22	10.3	10.1	B9	2	..	39922b
43	5459	11.2	-48 16	8.6	9.6	K2	1	..	38573b	93	6250	11.5	-39 50	8.8	8.6	F8	5	..	40276b
44	3028	11.2	-56 27	8.7	10.0	K2	2	..	38797b	94	5701	11.5	-47 29	8.2	8.3	Ko	4	..	13040b
45	2852	11.2	-57 22	10.0	10.0	Ao	2	..	38749b	95	3118	11.5	-55 9	7.34	9.4	Mb	3	5.2	38749b
46	2850	11.2	-58 3	8.5	9.4	Ko	3	..	38749b	96	1791	11.5	-60 14	9.44	8.9	B	3	..	38749b
47	1987	11.2	-59 8	9.3	9.6	Fo	2	..	38749b	97	1180	11.5	-69 17	8.7	9.5	G5	2	..	40297b
48	1536	11.2	-61 57	8.9	9.3	B9	3	..	40221b	98	1004	11.5	-70 14	9.2	9.2	Ao	2	..	39946b
49	1239	11.2	-67 33	6.9	6.9	B8	8	..	40297b	99	2230	11.6	+13 25	8.5	8.5	Ao	4	..	37724i
50	1000	11.2	-70 33	8.0	8.0	Ao	4	..	22988b	100	3008	11.6	-16 16	8.3	9.4	K2	3	..	40313b

THE HENRY DRAPER CATALOGUE.

89100

10^h 11^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7329	11.6	-27 12	8.2	8.8	Fo	4	..	39939b	51	3022	11.9	-21 59	8.1	8.7	Ko	6	0,4	40303b
2	6251	11.6	-39 55	8.8	9.2	Go	4	..	40276b	52	3021	11.9	-22 4	9.2	9.5	K2	1	..	40303b
3	5469	11.6	-48 43	7.8	8.0	B9	8	..	13040b	53	8303	11.9	-30 52	9.5	10.3	Ko	1	..	40082b
4	3356	11.6	-54 28	6.48	6.2	B3	..	0,10	56,128	54	6255	11.9	-39 40	10.5	10.8	Ko	1	..	39922b
5	3123	11.6	-55 11	8.08	7.9	B9	5	..	40250b	55	6079	11.9	-42 23	9.6	9.5	A2	3	..	40189b
6	1540	11.6	-61 46	9.1	9.5	Ao	3	..	40221b	56	6080	11.9	-43 3	10.0	9.9	A3	2	..	40189b
7	1005	11.6	-70 18	9.1	9.1	Ao	1	..	39946b	57	5095	11.9	-49 40	7.3	8.0	Ko	7	..	38797b
8	287	11.7	+83 18	6.92	7.92	Ko	..	0,4	1691c	58	3129	11.9	-55 36	8.4	9.1	K2	4	..	40250b
9	1470	11.7	+52 18	8.1	9.1	Ko	2	..	38638i	59	3043	11.9	-56 37	9.1	9.4	Ao	3	1,3	38749b
10	1732	11.7	+50 5	7.67	8.17	F8	5	..	38291i	60	2031	11.9	-58 14	9.00	9.3	A	1	..	38749b
11	1964	11.7	+33 17	8.7	9.3	Go	2	..	38673i	61	2033	11.9	-58 14	8.8	9.6	G5	1	..	38749b
12	2336	11.7	+ 8 45	8.9	9.9	Ko	2	5,2	13402b	62	2034	11.9	-59 6	8.8	10.3	A	1	..	38749b
13	2310	11.7	+ 2 19	7.9	9.0	K2	7	..	19341b	63	1207	11.9	-66 38	8.2	8.7	F8	6	..	40297b
14	3108	11.7	- 2 17	7.7	8.7	Ko	3	..	38242b	64	1067	11.9	-68 22	8.5	8.5	B9	7	..	40297b
15	3073	11.7	-13 53	9.3	9.7	F5	1	..	40247b	65	1986	12.0	+29 58	9.0	9.8	G5	1	..	38203i
16	3020	11.7	-21 35	9.3	9.5	F5	2	..	40303b	66	2888	12.0	- 8 32	8.9	10.0	K2	2	..	40281b
17	8041	11.7	-28 28	7.7	8.2	F5	5	..	39939b	67	3106	12.0	-17 48	8.3	8.7	F5	6	..	40313b
18	6807	11.7	-33 45	9.5	9.9	A	1	..	40082b	68	2965	12.0	-19 59	8.9	8.9	A5	5	..	40313b
19	6333	11.7	-39 0	9.4	9.8	G5	3	..	39922b	69	2964	12.0	-20 10	6.52	7.1	F5	10	..	40313b
20	6096	11.7	-43 44	8.9	9.5	Ko	2	..	40189b	70	6812	12.0	-34 1	8.8	9.4	A3	3	..	40082b
21	5704	11.7	-48 4	8.8	8.5	G5	2	..	13040b	71	6254	12.0	-36 24	7.46	8.6	G5	6	..	40276b
22	1541	11.7	-62 5	8.9	9.3	G5	3	..	40221b	72	6100	12.0	-43 20	9.6	9.1	Fo	2	..	40189b
23	1243	11.7	-67 48	8.8	8.8	Ao	4	..	40297b	73	4971	12.0	-50 49	9.4	9.2	Ao	2	..	38797b
24	1006	11.7	-71 4	8.5	9.1	Go	2	..	39946b	74	4610	12.0	-51 42	8.2	8.6	Bo	4	..	38797b
25	2207	11.8	+23 37	5.85	6.27	F5	..	0,8	2524c	75	3420	12.0	-52 8	7.6	8.6	G5	3	..	38797b
26	2132	11.8	+10 37	8.5	8.5	Ao	5	..	37724i	76	3422	12.0	-52 9	7.6	8.7	Go	4	..	38797b
27	2344	11.8	+ 2 56	8.5	9.1	Go	5	..	19341b	77	1183	12.0	-69 8	8.6	9.7	K2	1	..	40297b
28	2998	11.8	- 8 9	9.2	10.3	K2	1	..	40281b	78	918	12.0	-72 11	8.3	9.1	G5	3	..	22988b
29	3034	11.8	- 9 16	9.3	10.4	K2	1	..	40281b	79	2232	12.1	+12 48	9.0	9.6	Go	2	..	37724i
30	3031	11.8	-10 16	8.61	8.75	A5	4	..	40281b	80	2312	12.1	+ 5 46	8.7	9.8	K2	2	..	13402b
31	3020	11.8	-15 22	9.25	9.31	A2	2	..	40313b	81	8928	12.1	-24 9	9.2	9.5	A3	3	..	40303b
32	2885	11.8	-18 48	6.57	6.63	A2	10	..	40313b	82	8304	12.1	-30 24	9.3	10.6	K2	1	..	40082b
33	2881	11.8	-22 50	9.3	9.5	G5	1	..	40303b	83	3377	12.1	-54 43	9.7	9.7	Ao	1	..	40250b
34	6809	11.8	-33 51	9.4	9.9	A2	2	..	40082b	84	3132	12.1	-55 9	8.88	10.0	Ma	1	..	38749b
35	6334	11.8	-38 30	9.7	10.4	G5	1	..	39922b	85	3134	12.1	-55 24	8.6	9.1	F8	3	..	40250b
36	6097	11.8	-44 4	9.0	9.7	Ma	..	..	M	86	2038	12.1	-59 4	8.6	10.1	K2	1	..	38749b
37	4966	11.8	-50 45	7.6	8.1	Bo	6	..	38797b	87	1799	12.1	-60 14	8.94	9.2	F5	4	..	38749b
38	3366	11.8	-54 51	9.1	9.1	Ao	1	..	40250b	88	3076	12.2	-13 45	9.2	9.7	F8	2	..	40247b
39	3042	11.8	-56 53	9.0	9.1	Ao	4	..	38749b	89	3107	12.2	-17 14	9.6	10.6	Ko	1	..	40313b
40	2873	11.8	-57 21	9.1	9.1	B9	4	..	38749b	90	6085	12.2	-42 49	10.0	10.1	G5	1	..	40189b
41	1795	11.8	-60 29	9.8	9.8	A	2	..	38749b	91	5913	12.2	-45 54	8.3	8.3	Ao	6	..	40189b
42	942	11.8	-71 58	8.9	10.0	K2	2	..	39946b	92	3382	12.2	-55 1	7.04	7.4	Ao	8	..	40250b
43	916	11.8	-72 50	8.8	8.8	Ao	2	..	22988b	93	919	12.2	-72 24	9.0	10.2	K5	2	..	39946b
44	432	11.8	-80 9	8.91	9.1	G5	2	..	13465b	94	1362	12.3	+54 0	9.4	10.5	K2	1	..	38638i
45	2119	11.9	+31 24	7.88	9.23	Ma	2	..	38203i	95	2336	12.3	+39 23	8.9	9.3	F5	1	..	38673i
46	3031	11.9	- 5 21	8.90	8.90	Ao	4	..	40281b	96	2460	12.3	+20 30	8.4	9.5	K2	3	..	37571i
47	2887	11.9	- 8 24	9.3	10.3	Ko	1	..	40281b	97	2841	12.3	-11 37	8.7	9.9	K5	3	..	40247b
48	2838	11.9	-11 13	8.5	8.9	F5	5	..	40247b	98	7202	12.3	-32 33	8.2	8.2	Ao	4	..	40082b
49	3129	11.9	-12 36	7.17	7.95	G5	7	..	40247b	99	3539	12.3	-54 5	10.0	10.0	Ao	3	2,2	40097b
50	3105	11.9	-18 10	9.8	10.3	F8	1	..	40313b	100	3138	12.3	-55 32	8.9	10.0	K5	1	..	40250b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

89200

10^h 12^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3055	12.3	-56 52	8.2	8.9	B	4	..	38749b	51	1473	12.7	+51 55	6.76	7.32	Go	7	..	38638i
2	2003	12.3	-59 48	9.5	9.5	Ao	3	..	38749b	52	2337	12.7	+39 37	8.92	9.70	G5	2	..	38640i
3	1553	12.3	-62 2	6.8	6.9	B9	8	..	31521b	53	2283	12.7	+ 5 53	8.7	9.1	F5	6	..	13402b
4	1208	12.3	-66 47	8.4	9.0	Go	3	..	40297b	54	3001	12.7	- 7 34	5.40	5.68	Fo	10	R	13379b
5	1209	12.3	-66 47	7.9	8.7	G5	6	..	40297b	55	2889	12.7	-18 59	8.9	9.9	Ko	3	..	40313b
6	1972	12.4	+44 16	7.8	8.1	Fo	4	..	38291i	56	8934	12.7	-24 34	9.0	8.9	F8	5	..	40303b
7	2011	12.4	+32 39	8.2	8.3	A2	3	..	38203i	57	7806	12.7	-26 21	9.3	10.1	K5	1	..	39939b
8	2233	12.4	+13 38	8.44	9.44	Ko	4	..	37724i	58	8120	12.7	-31 21	9.3	9.7	Go	2	..	40082b
9	2185	12.4	+11 48	8.6	9.0	F5	5	..	37724i	59	7207	12.7	-32 11	8.5	8.9	A5	3	..	40082b
10	3077	12.4	-13 57	10.6	11.1	F8	1	..	40247b	60	7208	12.7	-32 27	8.2	8.8	A2	4	..	40082b
11	8234	12.4	-29 10	7.92	8.3	F5	4	..	39939b	61	6426	12.7	-37 9	9.4	10.4	A2	3	..	39922b
12	8312	12.4	-30 25	9.0	8.3	F5	5	..	40082b	62	3552	12.7	-53 35	9.3	9.4	A5	3	5,2	38797b
13	6822	12.4	-33 37	7.24	7.5	Ao	8	..	40082b	63	2008	12.7	-59 24	6.44	6.8	A2	5	1,7-	43205b
14	6590	12.4	-34 54	9.5	9.8	A5	2	..	40082b	64	1283	12.7	-65 31	9.2	9.3	A3	2	..	40297b
15	5903	12.4	-40 8	8.94	10.4	K5	2	..	39922b	65	1253	12.7	-67 51	9.7	9.7	A	2	..	40297b
16	5904	12.4	-41 0	9.1	9.8	Ao	3	..	40276b	66	1189	12.7	-69 8	8.0	8.3	F2	7	..	40297b
17	5100	12.4	-49 9	8.2	8.0	B9	4	..	13040b	67	1384	12.8	+55 14	7.96	8.96	Ko	4	..	38638i
18	1807	12.4	-60 12	9.54	9.3	A2	3	..	38749b	68	1761	12.8	+47 17	6.48	7.48	Ko	8	..	38291i
19	701	12.4	-73 52	8.9	10.1	K5	2	..	21453b	69	1973	12.8	+44 33	6.69	7.47	G5	7	..	38291i
20	1613	12.5	+46 36	8.8	9.8	Ko	2	..	38291i	70	2843	12.8	-11 34	7.9	8.0	A2	7	..	40247b
21	2007	12.5	+43 34	6.58	7.36	G5	7	..	38291i	71	3013	12.8	-17 2	8.1	9.2	K2	3	..	40313b
22	2125	12.5	+38 1	7.9	8.0	A2	4	E	38640i	72	5487	12.8	-48 51	8.3	9.2	K5	1	..	13040b
23	1866	12.5	+28 2	7.9	8.2	F2	3	..	38203i	73	4990	12.8	-50 42	6.40	8.3	Mb	..	0,7	56,128
24	2200	12.5	+22 29	8.0	8.8	G5	4	..	37571i	74	4621	12.8	-51 24	9.8	9.3	A2	2	..	38797b
25	2308	12.5	+ 3 58	8.9	9.9	Ko	4	..	19341b	75	1348	12.8	-63 16	8.0	8.0	Ao	7	..	40221b
26	3110	12.5	- 3 2	8.3	8.4	A2	4	..	38242i	76	1990	12.9	+30 20	8.2	8.5	Fo	5	..	38203i
27	3110	12.5	-17 13	9.3	9.9	Go	2	..	40313b	77	2342	12.9	+17 54	8.5	9.1	Go	3	..	37571i
28	3109	12.5	-17 18	10.0	11.0	Ko	1	..	40313b	78	2887	12.9	- 3 19	8.7	8.8	A5	2	..	38242i
29	6281	12.5	-35 21	9.5	10.1	F8	1	..	40082b	79	3112	12.9	-17 58	9.2	10.4	K5	2	..	40313b
30	6422	12.5	-37 34	9.5	10.4	F8	2	..	39922b	80	3143	12.9	-21 5	7.22	7.6	A2	8	..	40313b
31	6092	12.5	-42 29	9.2	10.1	K2	2	..	40189b	81	2886	12.9	-23 12	9.6	9.8	Ao	3	..	40303b
32	5975	12.5	-46 23	10.5	9.4	A	3	..	40189b	82	9159	12.9	-23 22	7.32	8.1	Ko	7	..	40303b
33	3145	12.5	-55 24	9.4	9.4	Ao	3	..	40250b	83	6833	12.9	-33 54	8.5	9.4	Ko	3	..	40082b
34	2007	12.5	-59 43	var.	var.	Ao	2	R	38749b	84	6596	12.9	-34 12	10.8	10.4	A2	1	..	40082b
35	1210	12.5	-66 23	9.1	9.2	A3	5	..	40297b	85	6265	12.9	-36 49	10.1	10.7	Go	1	..	39922b
36	1010	12.5	-70 57	8.8	10.0	K5	1	..	39946b	86	6428	12.9	-37 13	10.3	11.0	Ko	1	..	39922b
37	945	12.5	-71 37	9.7	9.8	A2	1	..	39946b	87	5746	12.9	-41 34	9.4	9.3	Ao	4	..	40189b
38	1363	12.6	+54 18	8.7	9.8	K2	1	..	38638i	88	4622	12.9	-51 25	10.2	9.5	A	1	..	38797b
39	1867	12.6	+27 55	6.46	6.44	B9	7	..	38203i	89	567	13.0	+69 32	7.82	8.82	Ko	5	2,3	37706i
40	2197	12.6	+17 41	8.1	9.2	K2	2	..	37571i	90	1991	13.0	+29 52	9.31	10.09	G5	1	..	37529i
41	2272	12.6	+ 6 55	8.5	8.8	F2	5	2,4	13402b	91	2341	13.0	+ 8 2	8.7	9.1	F5	4	0,4	13402b
42	2314	12.6	+ 5 8	9.0	9.3	Fo	5	..	13402b	92	2273	13.0	+ 7 8	8.9	9.4	F8	3	..	13402b
43	3080	12.6	-13 54	9.6	10.0	F5	1	..	40247b	93	3002	13.0	- 7 23	9.2	9.8	Go	1	..	40281b
44	2885	12.6	-22 42	10.2	9.6	A2	1	..	40303b	94	3040	13.0	- 9 57	9.6	10.1	F8	2	..	40281b
45	7204	12.6	-32 10	9.5	10.0	G5	1	..	40082b	95	3132	13.0	-13 1	8.5	9.5	Ko	4	..	40247b
46	6285	12.6	-36 5	8.8	9.5	Fo	4	..	40276b	96	2968	13.0	-19 57	9.8	9.8	A5	1	..	40313b
47	6424	12.6	-37 12	10.1	10.7	Fo	1	..	39922b	97	3024	13.0	-22 9	9.8	9.5	Go	3	..	40303b
48	4984	12.6	-50 25	11.5	9.2	B8	2	..	38797b	98	8125	13.0	-31 57	10.7	10.3	A	1	..	40082b
49	3389	12.6	-55 5	9.14	9.1	Pec.	2	R	40250b	99	6430	13.0	-37 47	10.3	10.7	G5	1	..	39922b
50	1011	12.6	-70 55	9.7	9.7	Ao	2	..	39946b	100	6353	13.0	-38 51	9.7	9.6	Ao	3	..	40276b

THE HENRY DRAPER CATALOGUE.

89300

10^h 13^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5909	13.0	-41 0	8.6	8.6	Fo	5	..	40276b	51	3136	13.5	-12 48	7.01	7.79	G5	7	..	40247b
2	4995	13.0	-50 30	10.5	9.2	B8	1	..	38797b	52	3137	13.5	-12 51	9.6	9.9	F	1	..	40247b
3	..	13.0	-62 52	..	..	Mb	..	..	M	53	8070	13.5	-28 30	5.62	7.2	B9	..	1,10	56,128
4	1190	13.0	-69 32	9.0	9.4	F5	2	..	40297b	54	6840	13.5	-33 52	9.5	9.8	G5	2	..	40082b
5	1365	13.1	+54 2	8.7	9.2	F8	3	..	38638i	55	5935	13.5	-45 55	Cl.	Cl.	Con.	1	R	13780b
6	2230	13.1	+14 27	8.3	8.9	Go	4	..	37724i	56	5745	13.5	-47 26	8.6	9.4	Mb	3	5,1	38573i
7	2237	13.1	+13 8	7.06	7.62	Go	8	..	37724i	57	5126	13.5	-50 5	9.44	8.9	Ao	3	..	38797b
8	2203	13.1	+11 21	8.9	9.3	F5	3	..	37724i	58	2913	13.5	-57 25	..	11.1	Oa	..	..	76,29
9	2331	13.1	+9 12	8.1	8.2	A2	6	..	37724i	59	2915	13.5	-57 35	9.7	9.7	B8	3	..	38749b
10	3034	13.1	-5 55	8.5	8.6	A2	5	..	40281b	60	1234	13.5	-65 2	8.98	9.0	Ao	3	..	40297b
11	2892	13.1	-8 31	9.6	10.8	K5	1	..	40281b	61	2232	13.6	+24 52	7.76	8.83	K2	3	..	37529i
12	3145	13.1	-20 31	7.38	8.6	K5	7	..	40313b	62	2204	13.6	+22 34	9.0	10.0	Ko	1	..	37571i
13	8063	13.1	-28 19	8.4	10.3	Ko	1	..	39939b	63	2345	13.6	+18 13	6.62	6.62	Ao	8	..	37571i
14	8241	13.1	-29 28	9.3	9.1	A2	2	..	39939b	64	2239	13.6	+12 48	8.6	9.2	Go	3	..	37724i
15	6834	13.1	-33 9	9.4	10.6	Ko	1	..	40082b	65	2275	13.6	+7 10	8.4	9.4	Ko	3	..	13402b
16	5738	13.1	-47 39	10.0	9.7	A3	2	..	38573b	66	2276	13.6	+7 9	9.7	10.2	F8	1	..	13402b
17	5493	13.1	-48 31	9.4	9.5	A	1	..	13040b	67	3081	13.6	-14 17	9.8	10.1	Fo	1	..	40247b
18	3159	13.1	-55 47	8.9	9.4	Ao	3	..	40250b	68	3113	13.6	-18 7	10.5	10.5	Ao	1	..	40313b
19	1940	13.2	+48 55	6.15	7.15	Ko	8	..	38291i	69	2889	13.6	-22 15	8.5	8.6	A3	7	0,4	40303b
20	2238	13.2	+13 18	8.73	9.23	F8	2	..	37724i	70	7816	13.6	-26 41	9.3	9.4	G5	2	..	39939b
21	2346	13.2	+3 27	9.7	10.7	K	1	..	19341b	71	5748	13.6	-47 55	7.5	8.2	K5	3	..	13040b
22	2319	13.2	-0 44	8.1	8.4	F2	8	..	19341b	72	4632	13.6	-51 35	9.6	9.2	F5	2	..	38797b
23	2890	13.2	-18 27	9.1	9.5	F5	1	..	40313b	73	2055	13.6	-58 8	8.4	8.9	K5	3	..	38749b
24	2888	13.2	-23 3	10.2	9.8	F	1	..	40303b	74	2018	13.6	-59 9	9.2	9.8	G	2	..	38749b
25	8065	13.2	-28 44	8.6	9.8	K2	1	..	39939b	75	1449	13.7	+56 22	9.0	9.5	F8	2	..	38638i
26	6600	13.2	-34 22	9.1	10.1	G5	1	..	40082b	76	2172	13.7	+21 4	8.8	9.8	Ko	2	..	37571i
27	6431	13.2	-37 21	8.9	10.4	K5	1	..	40276b	77	2421	13.7	+1 36	8.9	9.2	F2	6	..	19341b
28	5987	13.2	-46 20	6.68	7.1	Fo	8	..	40189b	78	3125	13.7	-7 0	9.1	9.9	G5	1	..	40281b
29	3161	13.2	-55 11	9.18	9.7	K2	1	..	40250b	79	3005	13.7	-8 9	8.9	9.9	Ko	3	..	40281b
30	2049	13.2	-58 21	8.8	8.6	B9	4	..	38749b	80	9169	13.7	-23 14	9.3	9.5	Ko	1	..	40303b
31	1191	13.2	-69 45	8.4	8.5	A2	7	..	40297b	81	8947	13.7	-24 46	9.8	10.0	A3	2	..	40303b
32	2203	13.3	+22 38	8.9	9.0	Ko	2	..	37571i	82	6111	13.7	-42 13	8.5	9.8	K5	2	..	40189b
33	2311	13.3	+2 4	7.9	9.0	K2	6	..	19341b	83	5129	13.7	-49 13	9.8	9.5	A2	2	..	38573b
34	3111	13.3	-2 56	9.1	9.6	F8	2	..	38242i	84	3580	13.7	-53 17	9.1	9.4	Ao	3	0,2	38797b
35	2890	13.3	-3 22	8.8	9.8	Ko	1	..	38242b	85	3579	13.7	-53 53	8.1	7.8	B9	6	..	40250b
36	3135	13.3	-12 50	9.3	9.0	Go	2	..	40247b	86	3177	13.7	-55 15	10.0	10.0	Ao	2	..	40250b
37	8941	13.3	-24 59	9.55	9.7	Ko	2	..	40303b	87	3176	13.7	-55 29	9.3	9.4	A2	3	..	40250b
38	7813	13.3	-27 3	8.6	9.7	Ko	2	..	39939b	88	1817	13.7	-60 50	3.44	5.5	K5	..	0, R	28,204
39	6363	13.3	-44 34	9.0	9.4	Go	2	..	40189b	89	1366	13.8	+54 18	6.44	6.94	F8	8	..	38638i
40	1498	13.3	-62 23	9.0	9.0	Ao	2	..	40221b	90	2069	13.8	+26 39	8.8	9.8	Ko	1	..	38203i
41	527	13.3	-78 51	8.3	8.3	B9	9	..	21453b	91	7916	13.8	-25 59	7.8	8.6	Ko	5	..	39939b
42	330	13.4	+78 51	7.64	8.64	Ko	5	0,4	37714i	92	6273	13.8	-36 51	9.1	11.0	K2	1	..	39922b
43	568	13.4	+69 15	5.84	6.12	Fo	10	5,10	37706i	93	6277	13.8	-39 43	8.5	8.6	Ao	6	..	40276b
44	2231	13.4	+25 14	6.60	7.60	Ko	4	0,5	38203i	94	5751	13.8	-47 51	9.2	8.6	Go	2	..	13040b
45	2135	13.4	+10 38	9.7	10.5	G5	2	..	37724i	95	1288	13.8	-65 34	9.2	9.2	Ao	3	..	40297b
46	2274	13.4	+7 47	8.5	8.5	Ao	8	..	13402b	96	2188	13.9	+15 10	8.5	9.6	K2	2	..	37724i
47	8131	13.4	-31 33	9.0	10.0	Go	2	..	40082b	97	6439	13.9	-38 5	9.5	10.7	Ko	1	..	39922b
48	6435	13.4	-37 36	9.5	10.4	Ko	1	..	40276b	98	6278	13.9	-40 3	8.1	9.5	K2	3	..	40276b
49	1563	13.4	-61 48	8.4	8.6	F5	3	..	31521b	99	5759	13.9	-41 57	10.1	10.4	K5	1	..	40189b
50	260	13.4	-84 53	9.2	10.4	K5	1	..	22238b	100	5015	13.9	-50 25	9.0	9.5	K2	1	..	38797b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

89400

10^h 13^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3183	13.9	-55 19	10.0	10.0	A	1	..	40250b	51	2140	14.3	+ 9 48	8.52	9.70	K5	3	..	37724i
2	2929	13.9	-58 2	9.1	8.2	B8	6	..	38749b	52	2278	14.3	+ 7 5	9.3	10.3	Ko	2	..	13402b
3	529	13.9	-78 30	7.6	7.5	B5	10	..	21453b	53	3039	14.3	-10 14	8.81	9.15	F2	3	..	40281b
4	390	13.9	-83 5	8.7	9.5	G5	2	..	13465b	54	3040	14.3	-10 52	8.1	8.9	G5	5	..	40281b
5	385	14.0	+76 9	8.9	9.5	Go	3	E	37714i	55	2851	14.3	-12 2	6.16	6.44	Fo	9	..	40247b
6	2203	14.0	+17 27	8.0	8.8	G5	2	..	37571i	56	3086	14.3	-14 49	8.3	8.4	A5	4	..	40313b
7	2190	14.0	+12 29	9.3	10.1	G5	2	..	37724i	57	3030	14.3	-21 27	8.3	8.9	Ko	4	..	40313b
8	2313	14.0	+ 2 2	8.3	9.3	Ko	4	..	19341b	58	8341	14.3	-30 55	9.8	10.3	K2	1	..	40082b
9	6442	14.0	-37 51	8.45	9.8	K2	2	..	40276b	59	6448	14.3	-37 54	8.9	10.7	K5	1	..	39922b
10	6280	14.0	-39 18	10.8	10.4	F8	1	..	39922b	60	6375	14.3	-38 21	10.5	10.4	Fo	2	..	39922b
11	6369	14.0	-45 4	9.00	10.3	K	1	..	40189b	61	5765	14.3	-41 11	6.26	6.2	Ao	9	..	40189b
12	5943	14.0	-45 45	9.0	9.4	A2	3	..	40189b	62	6000	14.3	-46 44	10.0	10.0	G5	1	..	13780b
13	1299	14.1	+59 7	8.9	9.5	G	2	R	37725i	63	5024	14.3	-50 19	8.0	8.0	A3	6	..	38797b
14	1367	14.1	+54 43	6.22	7.22	Ko	7	..	38638i	64	3426	14.3	-54 13	9.1	9.1	Ao	3	..	40250b
15	1994	14.1	+29 51	9.26	9.82	Go	2	E	37529i	65	1291	14.3	-66 5	8.0	8.0	B9	8	..	40297b
16	2213	14.1	+23 1	8.1	8.9	G5	3	..	37571i	66	953	14.3	-72 0	10.0	10.0	Ao	1	..	39946b
17	2336	14.1	+ 9 43	7.82	8.24	F5	6	..	37724i	67	436	14.3	-80 46	8.5	9.1	Go	2	..	13465b
18	3037	14.1	-10 40	7.66	8.22	Go	6	..	40281b	68	2072	14.4	+41 39	8.1	8.5	F5	2	E	38291i
19	3038	14.1	-11 13	8.7	9.2	F8	3	..	40281b	69	2028	14.4	+28 56	8.9	9.5	Go	2	E	37529i
20	2891	14.1	-22 40	7.72	8.4	G5	6	..	40303b	70	1870	14.4	+28 11	9.2	10.2	Ko	1	E	37529i
21	7366	14.1	-27 45	9.2	9.1	A2	3	..	39939b	71	2175	14.4	+20 55	8.4	9.4	Ko	4	..	37571i
22	8145	14.1	-32 3	7.76	8.9	K5	3	..	40082b	72	2374	14.4	- 1 56	10.0	10.1	A3	2	..	19393b
23	6446	14.1	-37 57	9.7	11.3	K2	1	..	39922b	73	2892	14.4	-22 39	8.7	8.6	F5	5	..	40303b
24	6371	14.1	-39 5	10.3	10.6	K5	1	..	39922b	74	8962	14.4	-25 5	9.55	9.7	Go	2	..	40303b
25	6281	14.1	-39 59	8.24	9.6	K2	3	..	40276b	75	7231	14.4	-32 28	9.1	9.5	Ko	2	..	40082b
26	5504	14.1	-48 15	8.2	8.6	Ko	3	..	13040b	76	7232	14.4	-32 42	8.8	9.8	F8	2	..	40082b
27	4637	14.1	-51 10	8.9	8.1	Fo	5	..	38797b	77	7230	14.4	-32 45	9.2	8.9	A5	4	..	40082b
28	4638	14.1	-51 26	8.3	8.6	K2	3	..	38797b	78	6376	14.4	-38 48	8.8	9.8	K2	2	..	40276b
29	3594	14.1	-54 7	8.3	7.9	Ao	7	..	40250b	79	6119	14.4	-42 14	10.0	9.9	F8	3	..	40189b
30	2063	14.1	-58 15	9.1	8.6	B5	5	..	38749b	80	619	14.4	-76 35	9.1	9.1	B9	7	..	21453b
31	2110	14.2	+16 16	8.9	9.7	G5	1	..	38647i	81	569	14.5	+69 26	7.55	8.55	Ko	4	0.4	37346i
32	2139	14.2	+10 24	7.9	9.0	K2	5	..	37724i	82	1616	14.5	+46 13	9.1	9.4	F	1	..	38291i
33	2335	14.2	+ 9 31	8.1	8.4	Fo	6	..	37724i	83	2029	14.5	+29 44	9.11	9.61	F8	2	E	37529i
34	2895	14.2	- 8 49	8.1	8.2	A2	7	..	40281b	84	2467	14.5	+20 21	2.61	3.61	Ko	..	R	964c
35	2849	14.2	-11 46	8.7	9.9	K5	2	..	40247b	85	2467	14.5	+20 21	3.80	4.80	..	..	..	..
36	3116	14.2	-17 36	8.5	8.8	F2	5	..	40313b	86	2232	14.5	+14 41	8.99	9.77	G5	2	..	37724i
37	2974	14.2	-19 48	8.7	9.3	Ko	3	..	40313b	87	2292	14.5	+ 6 42	9.0	10.0	Ko	1	..	13402b
38	7826	14.2	-27 5	10.3	10.0	A2	1	..	39939b	88	2641	14.5	+ 0 18	7.9	8.2	Fo	8	..	19341b
39	7367	14.2	-27 56	8.2	9.1	F5	3	..	39939b	89	3117	14.5	- 2 57	9.8	10.8	Ko	2	..	19393b
40	8147	14.2	-31 15	9.0	9.7	G5	2	..	40082b	90	2840	14.5	- 4 37	6.44	7.44	Ko	8	..	13369b
41	6304	14.2	-35 16	7.64	8.6	G5	6	..	40276b	91	3017	14.5	-16 55	9.8	10.6	G5	1	..	40313b
42	6281	14.2	-36 19	6.40	7.8	Ko	8	..	40276b	92	8081	14.5	-28 27	8.8	8.3	Fo	4	..	39939b
43	6371	14.2	-44 56	10.2	9.4	Ao	2	..	40189b	93	5949	14.5	-45 47	8.6	8.6	F8	3	..	40189b
44	3599	14.2	-53 8	9.6	10.0	F5	1	..	40097b	94	4651	14.5	-51 49	7.8	8.3	K2	4	..	38797b
45	2065	14.2	-58 51	8.4	8.7	Fo	6	0.2	38749b	95	3608	14.5	-53 28	9.7	9.7	Ao	1	..	40250b
46	1300	14.3	+59 33	8.3	9.3	Ko	2	..	37725i	96	3433	14.5	-54 40	9.4	9.4	B9	3	..	40250b
47	2110	14.3	+34 6	8.3	8.8	F8	4	..	38673i	97	2069	14.5	-59 0	9.4	9.3	B5	3	..	38749b
48	2111	14.3	+34 0	8.8	9.4	G	1	R	38673i	98	600	14.5	-77 47	8.1	8.2	A3	8	..	21453b
49	2466	14.3	+19 59	4.97	5.39	F5	..	0.10	964c	99	263	14.5	-84 36	8.5	9.3	G5	3	..	22238b
50	2189	14.3	+15 10	8.7	9.7	Ko	2	..	37724i	100	300	14.6	+82 1	8.2	9.2	Ko	3	..	37465i

THE HENRY DRAPER CATALOGUE.

89500

10^h 14^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1450	14.6	+56 3	8.7	8.8	A2	4	..	38638i	51	6455	14.9	-37 8	7.9	8.2	A2	6	..	40276b
2	1386	14.6	+55 31	9.6	10.0	F5	2	..	38638i	52	6383	14.9	-38 43	9.1	10.4	K2	3	..	39922b
3	2344	14.6	+ 8 8	9.3	9.6	Fo	3	..	13402b	53	5038	14.9	-50 11	9.44	9.0	A5	3	..	38797b
4	2345	14.6	+ 7 57	9.3	10.3	Ko	2	..	13402b	54	3443	14.9	-54 20	9.1	9.1	B8	2	..	40250b
5	2293	14.6	+ 6 25	9.3	9.6	Fo	1	..	13402b	55	1022	14.9	-70 42	8.6	8.9	F2	4	..	39946b
6	3118	14.6	- 3 12	8.8	9.8	Ko	2	..	38242i	56	1254	15.0	+59 49	9.41	10.19	G5	1	..	37725i
7	2841	14.6	- 4 44	7.56	7.90	F2	5	..	13369b	57	2030	15.0	+29 27	7.51	8.51	Ko	4	..	38203i
8	3018	14.6	-16 58	8.8	9.6	G5	2	..	40313b	58	2207	15.0	+17 43	9.0	9.6	Go	2	..	38647i
9	2894	14.6	-18 17	8.6	9.7	K2	4	..	40313b	59	2207	15.0	+11 22	8.5	9.5	Ko	2	..	37724i
10	2976	14.6	-19 30	9.3	9.5	A3	2	..	40313b	60	2338	15.0	+ 9 14	8.9	10.1	K5	1	..	13402b
11	6859	14.6	-33 43	9.5	10.3	A	1	..	40082b	61	2337	15.0	+ 9 9	8.1	9.1	Ko	2	..	37724i
12	6312	14.6	-35 55	8.5	9.8	K5	2	..	40276b	62	2348	15.0	+ 3 43	9.7	10.9	K5	2	..	19341b
13	3476	14.6	-52 13	8.2	8.7	Ko	4	2,2	40097b	63	2314	15.0	+ 1 58	9.0	10.0	Ko	3	..	19341b
14	3611	14.6	-54 4	8.7	8.9	F5	3	..	40250b	64	2378	15.0	- 1 45	9.0	10.0	Ko	2	..	19393b
15	3103	14.6	-56 24	10.2	10.3	A2	1	..	38749b	65	2897	15.0	- 8 34	6.34	6.68	F2	10	..	40281b
16	..	14.6	-62 9	Neb.	Neb.	Pd	..	R	76,22	66	3035	15.0	-22 1	7.9	8.6	Ko	5	..	40313b
17	1509	14.6	-62 53	8.5	9.5	Ko	2	..	40221b	67	6867	15.0	-34 3	11.0	10.3	A	1	..	40082b
18	1238	14.6	-64 56	6.84	7.3	Ao	8	..	40297b	68	3617	15.0	-53 47	9.1	10.0	A3	2	..	40097b
19	1266	14.6	-67 38	8.6	8.6	B9	7	..	40297b	69	3220	15.0	-55 37	6.14	7.4	F8	..	3,8	28,204
20	1202	14.6	-70 0	8.38	8.0	Ao	6	..	40297b	70	1024	15.0	-70 50	9.1	9.1	Ao	4	..	39946b
21	955	14.6	-71 25	9.2	10.3	K2	1	..	39946b	71	234	15.1	+84 46	5.64	5.72	A3	10	0, R	37465i
22	954	14.6	-71 45	9.0	10.2	K5	2	..	39946b	72	2114	15.1	+42 21	6.67	6.67	Ao	8	..	38291i
23	1250	14.7	+57 56	9.4	10.2	G5	2	..	37725i	73	2073	15.1	+41 43	8.7	9.7	Ko	1	..	38640i
24	2208	14.7	+22 31	7.48	8.48	Ko	5	..	37571i	74	2193	15.1	+11 52	8.0	9.0	Ko	5	..	37724i
25	2206	14.7	+11 39	8.7	9.3	Go	3	..	37724i	75	2339	15.1	+ 9 26	9.3	10.3	Ko	1	..	13402b
26	2376	14.7	- 2 12	10.0	10.5	F8	2	..	19393b	76	2348	15.1	+ 8 11	8.7	9.8	K2	1	..	13402b
27	2977	14.7	-20 0	9.3	9.2	Ao	3	..	40313b	77	2280	15.1	+ 7 47	9.5	10.0	F8	1	..	13402b
28	6863	14.7	-34 7	6.87	6.7	Ao	10	..	40082b	78	2900	15.1	- 3 50	8.1	8.2	A3	7	..	38242i
29	6379	14.7	-38 51	9.5	10.1	K2	3	..	39922b	79	3123	15.1	-17 19	9.6	10.1	F8	2	..	40313b
30	6003	14.7	-46 29	8.5	8.3	Fo	4	..	13040b	80	3148	15.1	-20 50	9.3	9.5	G5	1	..	40313b
31	5140	14.7	-49 24	7.9	8.7	K5	2	..	13040b	81	2894	15.1	-22 29	7.48	8.6	Ma	5	..	40303b
32	4652	14.7	-51 14	8.2	8.0	Ko	5	..	38797b	82	8971	15.1	-24 43	9.3	9.4	F8	4	..	40303b
33	3104	14.7	-56 56	8.5	9.1	Fo	6	..	38749b	83	7838	15.1	-26 40	8.8	9.7	G5	2	..	39939b
34	1831	14.7	-60 23	9.1	9.6	Ao	2	..	38749b	84	8091	15.1	-28 27	8.4	8.5	Go	3	..	39939b
35	486	14.8	+72 41	8.6	9.0	F5	4	..	37706i	85	8356	15.1	-30 30	7.46	8.2	Ko	5	..	40082b
36	1617	14.8	+46 29	8.7	9.0	Fo	2	..	38291i	86	6385	15.1	-38 37	10.3	10.6	K2	2	..	39922b
37	8969	14.8	-24 47	9.2	10.1	K2	1	..	40303b	87	5046	15.1	-50 13	7.24	7.0	B3	..	1,8	56,128
38	3441	14.8	-54 59	10.0	10.0	A	1	..	40250b	88	3222	15.1	-55 31	8.0	8.8	Ko	3	..	40097b
39	3211	14.8	-55 42	8.9	8.6	A	3	..	40250b	89	1298	15.1	-65 35	8.8	8.9	A2	3	..	40297b
40	3212	14.8	-56 3	8.0	8.5	Fo	6	..	38749b	90	1218	15.1	-66 54	9.0	9.3	Fo	2	..	40297b
41	1514	14.8	-62 49	9.2	9.2	B9	3	..	40221b	91	712	15.1	-73 55	8.5	9.3	G5	5	..	21453b
42	1295	14.8	-65 40	8.6	8.6	Ao	5	..	40297b	92	161	15.1	-87 52	9.0	10.0	Ko	2	..	22578b
43	620	14.8	-76 26	10.4	10.4	A	1	..	21453b	93	1255	15.2	+60 4	8.8	9.6	G5	2	..	37725i
44	301	14.9	+81 47	8.8	9.3	F8	3	..	37465i	94	1619	15.2	+46 45	7.8	8.9	K2	2	..	38291i
45	780	14.9	+64 23	9.0	9.0	Ao	2	..	37346i	95	2125	15.2	+31 10	7.26	8.26	Ko	5	..	38203i
46	1183	14.9	+61 24	7.47	8.47	Ko	7	..	37725i	96	7243	15.2	-32 13	8.3	9.5	Ko	2	..	40082b
47	2112	14.9	+16 40	9.0	9.8	G5	2	..	37571i	97	4656	15.2	-51 41	9.8	9.3	B9	2	..	38797b
48	8089	14.9	-28 56	8.93	10.1	K2	1	..	39939b	98	3457	15.2	-54 50	8.4	9.1	G5	2	..	40250b
49	8160	14.9	-31 23	8.3	8.5	F5	4	..	40082b	99	926	15.2	-72 21	9.7	10.0	Fo	3	..	39946b
50	8159	14.9	-32 2	9.0	10.3	K	1	..	40082b	100	601	15.2	-77 34	9.2	10.0	G5	2	..	21453b

89600

10^h 15^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1859	15.3	+48 23	8.7	8.8	A2	3	..	38291i	51	1252	15.6	+58 38	8.7	9.7	Ko	2	..	37725i
2	1822	15.3	+45 10	8.3	9.3	Ko	1	..	38291i	52	1860	15.6	+48 34	7.62	8.18	Go	5	..	38291i
3	2313	15.3	+ 4 8	8.5	9.6	K2	5	..	19341b	53	2114	15.6	+33 59	8.0	9.0	Ko	2	..	38673i
4	2379	15.3	- 2 11	9.17	9.95	G5	3	..	19393b	54	2315	15.6	+ 4 21	9.3	10.3	Ko	2	..	19341b
5	2857	15.3	-11 41	9.3	10.3	Ko	1	..	40247b	55	2351	15.6	+ 2 52	9.3	10.5	K5	1	..	19341b
6	3142	15.3	-12 58	9.3	10.3	Ko	1	..	19017b	56	3094	15.6	-13 58	9.2	10.0	G5	2	..	19017b
7	3150	15.3	-20 43	8.7	9.5	Ko	2	..	40313b	57	3029	15.6	-16 12	8.7	9.9	K5	1	..	40313b
8	7382	15.3	-27 55	9.5	10.1	G5	1	..	39939b	58	2899	15.6	-18 38	9.6	10.0	F5	1	..	40313b
9	6872	15.3	-33 54	9.1	11.0	K5	1	..	40082b	59	8366	15.6	-31 4	8.0	8.2	Ko	6	..	40082b
10	6135	15.3	-42 50	8.2	8.6	A2	5	..	40189b	60	6876	15.6	-34 0	9.1	9.4	G5	3	..	40082b
11	5959	15.3	-45 9	7.78	7.9	Ao	6	..	40189b	61	6390	15.6	-38 59	11.2	10.4	Ao	2	..	39922b
12	5154	15.3	-49 37	9.1	8.4	Ao	3	..	13040b	62	6139	15.6	-42 17	10.5	10.1	Ao	2	..	40189b
13	3229	15.3	-55 31	7.2	7.6	A2	6	..	40250b	63	3467	15.6	-54 53	9.3	9.4	A2	2	..	40250b
14	2043	15.3	-59 54	9.1	9.2	Ao	3	..	38749b	64	2088	15.6	-59 5	9.0	9.0	Fo	4	..	38749b
15	602	15.3	-77 21	8.6	9.4	G5	4	..	21453b	65	770	15.7	+65 28	8.1	9.1	Ko	3	..	37346i
16	399	15.4	+77 10	9.4	9.9	F8	2	..	37465i	66	1257	15.7	+60 4	9.0	9.8	G5	1	..	37725i
17	1620	15.4	+46 40	8.9	9.3	F5	2	..	38291i	67	2316	15.7	+ 4 29	8.9	9.9	Ko	1	..	19341b
18	2470	15.4	+20 2	8.8	9.1	Fo	4	..	37571i	68	2326	15.7	- 0 57	8.9	9.9	Ko	1	..	19393b
19	2282	15.4	+ 6 56	7.9	8.3	F5	8	0.8	13402b	69	2846	15.7	- 4 52	6.96	7.02	A2	9	..	13369b
20	3143	15.4	-12 31	9.3	9.8	F8	2	..	40247b	70	3043	15.7	- 5 41	7.35	7.49	A5	7	..	13369b
21	3124	15.4	-17 41	9.8	10.4	Go	1	..	40313b	71	2900	15.7	-18 27	8.6	8.7	A5	7	..	40313b
22	8361	15.4	-30 51	10.5	10.0	G5	1	..	40082b	72	7252	15.7	-32 37	7.6	7.8	A2	8	..	40082b
23	5960	15.4	-45 43	8.2	7.8	Ao	6	..	40189b	73	3127	15.7	-56 41	9.9	10.3	F5	1	..	38749b
24	3119	15.4	-56 40	10.3	10.3	Ao	1	..	38749b	74	3011	15.8	- 7 28	8.9	9.9	Ko	1	..	13379b
25	2044	15.4	-59 15	9.0	8.7	B	4	..	38749b	75	3030	15.8	-15 51	8.1	8.9	G5	4	..	40313b
26	1836	15.4	-60 26	8.2	9.8	K5	3	..	38749b	76	3031	15.8	-16 13	9.3	10.1	G5	1	..	40313b
27	1576	15.4	-61 10	8.4	9.0	A2	3	2.3	31521b	77	6302	15.8	-39 12	7.28	7.5	B9	10	..	40276b
28	1517	15.4	-62 51	8.5	9.6	K2	1	..	40221b	78	6301	15.8	-39 42	11.2	10.4	Go	1	..	39922b
29	1871	15.5	+28 15	8.0	9.0	Ko	2	..	38203i	79	6016	15.8	-46 27	9.2	9.4	A3	2	..	13040b
30	1878	15.5	+27 25	8.6	9.2	Go	1	..	38203i	80	6015	15.8	-46 35	8.6	8.2	Ao	4	..	13040b
31	1879	15.5	+27 13	8.8	9.4	Go	3	E	37529i	81	5782	15.8	-47 28	6.89	7.4	A2	..	2.9	56,128
32	2208	15.5	+17 43	9.3	9.8	F8	1	..	38647i	82	3474	15.8	-54 32	4.58	7.1	Ko	..	0.8	28,204
33	2321	15.5	+ 5 10	8.16	8.66	F8	8	..	19341b	83	1842	15.8	-60 36	8.2	8.0	B8	6	0.5	31521b
34	2858	15.5	-11 38	9.2	10.0	G5	3	..	40247b	84	1244	15.8	-64 53	8.9	9.0	A5	2	..	40297b
35	2860	15.5	-11 41	9.2	9.7	F8	3	..	40247b	85	1475	15.9	+51 58	8.7	9.3	Go	2	..	38665i
36	3092	15.5	-13 17	8.9	9.9	Ko	3	..	19017b	86	1977	15.9	+44 26	7.04	7.46	F5	5	..	38291i
37	3038	15.5	-22 7	8.7	8.0	A2	5	..	40313b	87	2033	15.9	+29 3	8.1	9.3	K5	2	..	38203i
38	2896	15.5	-22 35	7.47	8.1	G5	6	..	40303b	88	2352	15.9	+ 2 47	6.53	6.36	B3	9	..	38242i
39	2897	15.5	-22 39	9.3	8.9	A3	4	..	40303b	89	3012	15.9	- 8 3	8.6	9.6	Ko	4	..	40281b
40	9201	15.5	-23 15	9.5	9.5	A5	2	..	40303b	90	2899	15.9	- 8 29	8.7	9.7	Ko	2	..	40281b
41	7840	15.5	-27 2	8.6	9.7	Ko	1	..	39939b	91	3095	15.9	-14 5	9.1	9.9	G5	3	..	19017b
42	8094	15.5	-28 10	8.0	10.0	K2	2	..	39939b	92	3026	15.9	-16 45	9.3	9.4	A5	2	..	40313b
43	8363	15.5	-31 6	8.2	8.8	Ko	4	..	40082b	93	2901	15.9	-18 17	9.6	10.4	G5	1	..	40313b
44	4662	15.5	-51 19	10.2	9.3	A2	2	..	38797b	94	2899	15.9	-23 9	7.34	8.3	Ko	5	..	40303b
45	3121	15.5	-56 8	9.1	9.7	Ao	2	..	38749b	95	7843	15.9	-26 34	9.3	9.7	A3	2	..	39939b
46	2969	15.5	-57 15	9.7	9.7	Ao	2	..	38749b	96	8276	15.9	-30 0	8.65	9.7	K2	2	..	39939b
47	1839	15.5	-60 52	8.0	9.8	Mb	2	0.2	31521b	97	6332	15.9	-35 41	8.1	9.3	K2	3	..	40276b
48	1028	15.5	-70 48	9.8	9.8	Ao	1	..	39946b	98	5966	15.9	-45 14	8.98	9.1	Ao	3	..	40189b
49	644	15.5	-75 33	9.0	9.3	Fo	4	..	21453b	99	5539	15.9	-48 28	10.2	9.5	A2	2	..	38573b
50	1121	15.6	+61 55	8.8	9.8	Ko	2	..	37725i	100	3500	15.9	-52 29	9.1	9.2	A3	2	..	40097b

THE HENRY DRAPER CATALOGUE.

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10^h 15^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2047	15.9	-60 3	9.94	9.0	Ao	3	..	38749b	51	7260	16.3	-33 7	8.8	10.0	K5	1	..	40082b
2	1222	15.9	-66 18	8.9	8.9	Ao	5	..	40297b	52	6150	16.3	-42 43	7.9	8.3	F8	5	..	40189b
3	1223	15.9	-66 28	8.0	9.2	K5	5	..	40297b	53	6403	16.3	-44 19	9.2	9.2	A3	3	..	40189b
4	386	16.0	+76 11	7.8	8.8	Ko	3	0,5	37465i	54	3505	16.3	-53 7	8.4	9.5	Ko	1	..	40250b
5	2322	16.0	+5 31	10.3	10.6	F2	2	..	13394b	55	3482	16.3	-54 58	9.7	9.7	Ao	1	..	40250b
6	2424	16.0	+1 6	9.3	9.6	F2	3	..	19341b	56	3141	16.3	-57 1	8.0	8.5	F2	8	..	38749b
7	3093	16.0	-14 59	7.01	7.51	F8	7	..	40313b	57	1278	16.3	-67 23	9.2	9.3	A3	2	..	40297b
8	2902	16.0	-18 32	7.7	8.2	F8	8	..	40313b	58	2115	16.4	+42 0	3.21	4.39	K5	..	0, R	867c
9	8175	16.0	-31 19	6.74	7.2	F8	9	..	40082b	59	2903	16.4	-4 5	9.1	10.1	Ko	3	..	19393b
10	6335	16.0	-35 21	9.1	10.1	K5	2	..	40082b	60	3028	16.4	-17 5	8.7	9.5	G5	3	..	40313b
11	6393	16.0	-38 48	10.8	10.4	F5	1	..	39922b	61	3156	16.4	-20 33	9.3	9.5	F5	1	..	40313b
12	5969	16.0	-45 36	7.9	9.2	K5	2	..	40189b	62	3044	16.4	-21 26	9.2	8.9	F5	3	..	40303b
13	5055	16.0	-51 3	7.0	7.7	F2	..	3,8	56,128	63	8179	16.4	-31 48	9.8	10.6	A	1	..	40082b
14	3131	16.0	-56 54	9.0	9.4	B2	4	..	38749b	64	6399	16.4	-38 23	10.5	9.8	Fo	3	..	39922b
15	1248	16.0	-64 11	6.24	5.4	Ao	9	..	34089b	65	5785	16.4	-41 33	8.8	9.5	Ko	3	..	40189b
16	1100	16.0	-68 55	8.9	8.9	Ao	4	..	40297b	66	4674	16.4	-51 42	8.3	8.3	B9	5	..	38797b
17	412	16.1	+75 18	7.97	8.53	Go	5	5,3	37714i	67	4673	16.4	-52 6	7.5	7.6	Bo	6	..	38797b
18	2075	16.1	+41 26	8.8	9.1	F2	1	..	38640i	68	3259	16.4	-56 7	8.3	7.9	Ao	8	..	38749b
19	2327	16.1	-1 9	9.0	10.0	Ko	2	..	19393b	69	2999	16.4	-57 17	10.0	10.0	Ao	2	..	38749b
20	2847	16.1	-4 55	6.96	8.03	K2	4	..	13369b	70	1224	16.4	-66 51	8.3	9.5	K5	2	..	40297b
21	3014	16.1	-8 12	8.3	8.4	A5	7	..	40281b	71	489	16.5	+72 0	8.7	9.0	F2	3	..	37706i
22	7255	16.1	-32 15	10.3	9.7	A3	1	..	40082b	72	2475	16.5	+20 34	9.6	10.6	K	2	..	37571i
23	3639	16.1	-53 23	9.7	9.7	Ao	2	..	40250b	73	2474	16.5	+20 19	9.6	10.2	G	2	..	37571i
24	3250	16.1	-55 8	9.5	10.3	G5	1	..	40250b	74	2192	16.5	+15 29	6.10	6.08	B9	10	1,9	37724i
25	2988	16.1	-57 35	9.1	9.7	Fo	3	..	38749b	75	2324	16.5	+4 49	9.16	10.51	Ma	1	..	19341b
26	2987	16.1	-57 41	9.7	9.7	B9	2	..	38749b	76	2904	16.5	-3 21	8.1	9.2	K2	4	..	38242i
27	714	16.1	-73 24	8.6	9.7	K2	3	..	21453b	77	3030	16.5	-16 32	9.1	9.9	G5	1	..	40313b
28	442	16.1	-80 43	8.6	9.2	Go	1	..	13465b	78	3157	16.5	-20 22	8.98	8.9	F8	3	..	40313b
29	2339	16.2	+39 0	8.3	9.1	G5	1	..	38640i	79	6310	16.5	-39 54	9.9	9.9	Ko	1	..	39922b
30	2210	16.2	+21 55	9.6	10.1	F8	4	..	37571i	80	1034	16.5	-70 17	9.53	10.2	Ko	1	..	39946b
31	2210	16.2	+11 35	8.9	9.7	G5	2	..	37724i	81	2011	16.6	+43 8	7.7	8.0	Fo	6	..	38291i
32	2341	16.2	+9 36	10.0	10.8	G5	1	..	13402b	82	2212	16.6	+11 12	7.9	8.4	F8	7	..	37724i
33	2340	16.2	+9 18	9.3	10.1	G5	2	..	13402b	83	2283	16.6	+7 8	9.3	9.6	F2	3	..	13402b
34	2642	16.2	+0 18	7.9	8.3	F5	7	..	19341b	84	3031	16.6	-16 45	9.6	9.7	A2	2	..	40313b
35	6306	16.2	-39 51	10.3	10.1	F2	2	..	39922b	85	6153	16.6	-42 23	7.3	7.5	B9	7	..	40189b
36	5790	16.2	-47 12	5.62	7.4	Ko	..	5,7	56,128	86	5172	16.6	-49 52	10.0	9.6	A	1	..	13040b
37	5542	16.2	-48 13	9.4	9.5	Ko	3	..	38573b	87	5066	16.6	-50 39	9.6	9.5	F5	2	..	38797b
38	5062	16.2	-50 16	9.1	8.7	Ao	4	..	38797b	88	5065	16.6	-50 57	7.5	8.6	Ma	4	..	38797b
39	3140	16.2	-56 32	8.7	9.1	Fo	3	..	38749b	89	4678	16.6	-51 33	9.2	9.6	Ao	2	..	38797b
40	2095	16.2	-58 38	6.2	6.4	B3	6	0,8-	38749b	90	3490	16.6	-54 27	9.1	9.1	B8	2	..	40250b
41	1584	16.2	-61 42	7.4	8.9	A5	4	2,3	40221b	91	233	16.6	-86 6	10.1	10.2	A5	2	..	22238b
42	433	16.3	+73 59	9.4	9.5	A2	4	..	38663i	92	2021	16.7	+32 3	8.9	9.9	Ko	2	E	38711i
43	1597	16.3	+51 1	8.1	8.9	G5	2	..	38665i	93	2210	16.7	+16 58	8.6	9.4	G5	2	..	37571i
44	2076	16.3	+41 44	5.88	6.30	F5	7	R	38291i	94	2244	16.7	+12 56	9.3	9.9	Go	2	..	37724i
45	2212	16.3	+21 52	9.6	10.1	F8	2	..	37571i	95	3052	16.7	-9 16	7.7	8.5	G5	5	..	40281b
46	3097	16.3	-13 17	6.59	6.65	A2	7	..	40247b	96	8992	16.7	-24 53	6.88	8.3	Ko	7	..	22920b
47	3129	16.3	-17 29	6.55	6.97	F5	8	..	13136b	97	6404	16.7	-38 23	9.5	9.9	Fo	3	..	39922b
48	2901	16.3	-22 19	9.6	9.2	F8	3	..	40303b	98	5957	16.7	-40 23	10.5	9.9	Ao	2	..	40276b
49	8105	16.3	-28 14	8.8	9.7	G5	2	..	39939b	99	6028	16.7	-46 33	9.2	10.0	K2	1	..	38573b
50	8378	16.3	-30 37	9.8	10.3	K5	1	..	40082b	100	6027	16.7	-47 4	6.9	7.9	K5	4	..	13040b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

89800

10^h 16^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3492	16.7	-55 2	9.7	9.7	Ao	1	..	40250b	51	7398	17.0	-27 47	8.2	9.5	K2	3	..	39939b
2	3008	16.7	-57 10	9.0	9.1	B9	5	..	38749b	52	6312	17.0	-36 51	8.1	9.2	F2	3	..	40276b
3	2054	16.7	-59 10	7.2	8.1	Fo	5	0,3-	31521b	53	6318	17.0	-39 58	8.2	9.5	K2	3	..	40276b
4	2052	16.7	-59 23	8.4	8.9	Ko	4	0,5	31521b	54	6183	17.0	-44 3	7.9	7.9	Ao	5	..	40189b
5	1250	16.7	-64 39	6.58	8.3	K2	8	..	40297b	55	5176	17.0	-49 48	9.6	9.6	A2	1	..	13040b
6	1225	16.7	-66 54	9.5	9.5	Ao	2	..	40297b	56	4685	17.0	-51 22	9.4	9.0	B9	4	..	38797b
7	645	16.7	-75 19	8.5	8.8	F2	7	..	21453b	57	4684	17.0	-51 30	9.4	9.5	B9	3	..	38797b
8	534	16.7	-78 35	10.3	10.3	A	2	..	21453b	58	4683	17.0	-51 47	9.1	10.4	K5	2	..	40097b
9	2321	16.8	+40 26	8.7	9.7	Ko	3	..	38640i	59	3019	17.0	-57 16	8.2	10.0	K5	2	..	38749b
10	2077	16.8	+26 1	9.0	10.4	Mc	..	..	M	60	1283	17.0	-67 42	8.5	8.6	A2	4	..	40297b
11	2181	16.8	+21 39	9.7	10.3	G	1	..	37571i	61	1036	17.0	-70 34	9.0	9.4	F5	2	..	39946b
12	2211	16.8	+17 38	8.6	8.7	A2	2	..	37571i	62	1266	17.1	+57 2	8.1	9.1	Ko	2	..	38638i
13	2200	16.8	+11 50	8.0	8.8	G5	5	..	37724i	63	1826	17.1	+44 54	8.72	9.28	Go	2	..	38291i
14	2343	16.8	+ 9 1	9.3	10.3	Ko	1	..	13402b	64	2118	17.1	+33 47	8.6	9.1	F8	2	..	38673i
15	3035	16.8	-16 8	9.2	9.7	F8	2	..	40313b	65	2240	17.1	+25 5	7.81	8.23	F5	3	0,4	38203i
16	2904	16.8	-23 13	6.48	7.0	A3	9	..	40303b	66	2212	17.1	+17 15	7.7	8.0	Fo	4	..	37571i
17	7957	16.8	-25 46	8.3	8.8	F8	5	..	39939b	67	2905	17.1	-18 56	9.6	9.7	A2	3	..	40313b
18	6405	16.8	-39 7	9.5	10.4	Ko	1	..	39922b	68	6409	17.1	-38 18	10.1	10.4	Fo	1	..	39922b
19	4680	16.8	-51 10	8.5	9.2	Ko	4	..	38797b	69	5794	17.1	-41 40	8.5	9.3	K2	3	..	40189b
20	2107	16.8	-59 3	8.9	8.9	Ao	6	..	38749b	70	6157	17.1	-42 49	9.6	10.4	G5	1	..	40189b
21	1587	16.8	-61 9	8.4	9.3	F2	2	2,2	31521b	71	5069	17.1	-50 56	8.8	9.6	Ko	2	..	38797b
22	664	16.9	+66 4	4.92	4.92	Ao	..	..	56,87	72	3277	17.1	-56 0	8.0	8.2	Ao	7	..	38749b
23	2425	16.9	+ 1 41	9.0	10.2	K5	2	..	19341b	73	3022	17.1	-57 16	9.7	9.7	Ao	3	..	38749b
24	2328	16.9	- 0 15	7.53	8.31	G5	5	..	38242i	74	2061	17.1	-59 8	7.4	8.4	G5	4	0,7	31521b
25	2380a	16.9	- 1 59	10.7	11.2	F8	1	..	19393b	75	2062	17.1	-59 44	9.3	9.6	Fo	2	..	38749b
26	3097	16.9	-14 41	8.8	10.0	K5	2	..	19017b	76	1531	17.1	-62 50	7.7	7.7	Ao	4	..	34089b
27	3131	16.9	-18 3	9.6	9.9	F2	1	..	40313b	77	1037	17.1	-70 24	9.7	9.7	A	1	..	39946b
28	3045	16.9	-22 2	6.45	6.6	Ao	10	..	13324b	78	968	17.1	-71 22	8.9	10.0	K2	2	..	39946b
29	8292	16.9	-29 26	8.2	8.8	Ko	3	..	13048b	79	716	17.1	-73 33	9.3	9.3	Ao	4	..	21453b
30	8291	16.9	-29 45	9.8	9.1	A3	3	..	39939b	80	536	17.1	-79 45	9.5	10.5	Ko	1	..	21453b
31	7273	16.9	-32 38	9.7	10.3	K2	1	..	40082b	81	337	17.2	+81 42	7.67	8.23	Go	4	..	37465i
32	6652	16.9	-34 53	8.6	9.5	Go	3	..	40082b	82	1254	17.2	+58 19	9.6	10.4	G5	1	..	37725i
33	6311	16.9	-36 11	8.8	9.3	A3	3	..	40276b	83	2131	17.2	+30 50	8.6	8.7	A3	3	..	38203i
34	6310	16.9	-36 39	8.6	8.6	Ao	6	..	40276b	84	3133	17.2	-17 32	6.99	6.87	B5	8	..	13136b
35	6478	16.9	-37 53	10.1	10.1	G5	1	..	41389b	85	2986	17.2	-20 4	7.23	8.6	Ko	6	0,6	13324b
36	5961	16.9	-40 36	9.5	9.8	F5	3	..	40276b	86	9225	17.2	-23 56	7.8	7.9	F8	5	..	13324b
37	6156	16.9	-42 45	8.9	10.1	K5	2	..	40189b	87	8117	17.2	-28 23	9.0	10.1	Fo	1	..	39939b
38	6178	16.9	-43 22	8.8	9.4	F2	2	..	40189b	88	6411	17.2	-38 10	9.7	10.4	G5	1	..	39922b
39	3649	16.9	-53 10	7.4	7.9	F5	6	..	40250b	89	5559	17.2	-48 43	10.5	10.1	Go	2	..	38573b
40	3652	16.9	-53 23	10.3	10.3	Ao	1	..	40250b	90	3286	17.2	-55 33	4.65	4.53	B5p	..	R	28,204
41	3497	16.9	-54 50	var.	var.	K2	1	R	40250b	91	1226	17.2	-66 40	6.9	6.9	B9	9	..	40297b
42	3272	16.9	-55 28	9.4	9.4	Ao	2	..	40250b	92	2130	17.3	+35 43	7.04	7.10	A2	7	..	37582i
43	3156	16.9	-56 15	8.2	7.9	Ao	7	..	38749b	93	2203	17.3	+12 0	9.3	9.6	Fo	2	..	37724i
44	3159	16.9	-56 39	8.0	7.9	B8	7	..	38749b	94	2351	17.3	+ 8 17	10.7	11.5	G5	1	..	13394b
45	2059	16.9	-59 57	var.	var.	Mb	3	R	38749b	95	2318	17.3	+ 1 58	8.6	8.9	F2	4	..	19341b
46	1306	17.0	+58 56	8.0	8.3	F2	7	..	37725i	96	2426	17.3	+ 1 4	8.7	9.8	K2	3	..	19341b
47	2352	17.0	+18 1	7.77	8.05	Fo	5	..	37571i	97	3147	17.3	-12 55	6.80	6.78	B9	7	..	40247b
48	2344	17.0	+ 9 29	6.96	8.14	K5	6	..	37724i	98	9000	17.3	-25 6	10.10	10.0	G	1	..	22920b
49	2299	17.0	+ 6 44	9.3	9.8	F8	3	..	13394b	99	6485	17.3	-37 44	9.9	9.8	G5	1	..	41389b
50	3132	17.0	-18 4	9.8	10.8	Ko	1	..	40313b	100	4691	17.3	-51 13	8.5	8.6	Ao	5	..	38797b

THE HENRY DRAPER CATALOGUE.

89900

10^h 17^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4690	m. 17.3	° 51 15	8.6	8.6	Ao	4	..	38797b	51	6493	m. 17.7	° 37 41	9.5	11.3	Mb	..	..	M
2	4692	17.3	-51 44	9.0	9.8	Ko	3	2,1	40097b	52	6419	17.7	-38 39	9.9	10.4	A2	2	..	39922b
3	1305	17.3	-65 34	7.7	7.7	Ao	8	..	40297b	53	6000	17.7	-45 22	8.3	9.2	Ko	3	..	40189b
4	2120	17.4	+34 25	5.83	5.91	A3	..	1,10	56,87	54	5186	17.7	-49 18	8.6	9.0	Ao	3	..	13040b
5	2133	17.4	+31 22	7.57	8.57	Ko	3	..	38203i	55	5081	17.7	-50 36	8.6	9.3	Ko	3	..	38797b
6	2116	17.4	+15 52	7.37	8.15	G5	6	5,5	37724i	56	4701	17.7	-51 32	8.4	8.6	B8	5	..	38797b
7	2354	17.4	+ 3 18	9.3	10.5	K5	1	..	19341b	57	3668	17.7	-53 12	9.6	9.7	A2	1	..	40250b
8	2908	17.4	- 3 23	9.3	9.6	F2	3	2,4	19232b	58	537	17.7	-78 30	9.7	10.5	G5	1	..	21453b
9	2907	17.4	- 3 55	8.3	8.9	Go	4	..	38242i	59	2078	17.8	+41 41	8.9	9.9	Ko	3	..	38640i
10	3148	17.4	-13 10	8.9	9.9	Ko	3	..	19017b	60	1884	17.8	+26 59	8.9	9.4	F8	2	..	38203i
11	2987	17.4	-19 22	6.12	6.6	Ao	10	..	40313b	61	2354	17.8	+18 14	9.0	9.1	A2	2	..	37571i
12	2988	17.4	-20 11	8.88	9.3	Fo	2	..	40313b	62	2289	17.8	+ 7 4	6.28	7.28	Ko	8	0,9	37724i
13	3161	17.4	-20 46	7.9	8.3	Ao	6	0,7	40313b	63	3052	17.8	- 6 2	9.2	10.2	Ko	1	..	13379b
14	8391	17.4	-30 11	9.10	8.9	F8	2	..	39939b	64	3134	17.8	- 6 15	8.6	9.6	Ko	2	..	13379b
15	4693	17.4	-51 15	8.3	8.3	B9	5	..	38797b	65	8125	17.8	-28 21	9.0	10.1	G5	1	..	39939b
16	3519	17.4	-52 26	9.0	9.6	Ao	2	..	40250b	66	6329	17.8	-39 27	8.8	8.3	G5	4	..	40276b
17	2352	17.5	+ 7 56	9.3	10.4	K2	1	..	13402b	67	6044	17.8	-46 52	9.8	9.7	G5	2	..	38573b
18	6326	17.5	-39 44	9.5	10.1	K5	1	..	39922b	68	1538	17.8	-62 32	9.2	9.3	A5	3	..	40221b
19	5799	17.5	-41 23	9.4	9.8	Ko	2	..	40189b	69	401	17.9	+76 50	9.4	10.2	G5	2	..	37714i
20	6190	17.5	-44 1	9.8	10.9	Ko	1	R	40189b	70	781	17.9	+64 40	7.75	8.82	K2	3	..	37346i
21	5565	17.5	-48 54	8.0	9.5	Ko	5	2,2	38573b	71	2322	17.9	+ 4 9	8.5	8.8	F2	6	..	19341b
22	4696	17.5	-51 20	9.8	9.6	A	2	..	38797b	72	3042	17.9	-15 34	9.3	9.7	F5	2	..	19017b
23	3664	17.5	-53 34	9.0	9.7	G5	4	..	40250b	73	5805	17.9	-41 51	9.7	9.2	A2	3	..	40189b
24	3297	17.5	-55 11	9.38	9.4	F5	1	..	40250b	74	1231	17.9	-67 2	8.9	8.9	A	7	R	40297b
25	3035	17.5	-57 59	8.0	8.0	Ko	4	5,7	31521b	75	1232	17.9	-67 2	9.0	9.0	A	7	R	40297b
26	2119	17.5	-58 54	9.3	9.3	B9	3	..	38749b	76	1292	17.9	-67 34	7.4	7.4	B8	8	..	40297b
27	1853	17.5	-60 26	8.1	9.6	Ko	2	..	38749b	77	665	18.0	+66 26	7.9	8.9	Ko	3	..	37346i
28	1038	17.5	-71 4	8.9	9.5	Go	2	..	39946b	78	2355	18.0	+ 3 7	8.5	8.8	F2	3	..	19341b
29	1308	17.6	+59 2	9.7	9.8	A3	2	..	37725i	79	2381	18.0	- 2 0	10.3	11.5	K5	2	..	19343b
30	2335	17.6	+19 37	7.10	7.88	G5	5	..	37571i	80	3051	18.0	-10 47	8.6	9.7	K2	1	..	13379b
31	2345	17.6	+ 9 20	9.5	10.5	K	1	..	13402b	81	2914	18.0	-18 56	8.5	9.6	K2	3	..	40313b
32	2428	17.6	+ 1 41	8.5	8.8	F2	7	..	19341b	82	9237	18.0	-23 17	9.6	9.5	Go	2	..	40303b
33	2909	17.6	- 3 14	8.9	9.9	Ko	1	5,1	38242i	83	9236	18.0	-23 20	8.8	9.3	G	2	..	40303b
34	8394	17.6	-31 1	9.3	8.5	Fo	4	..	40082b	84	8402	18.0	-30 10	8.20	8.9	Ko	2	R	13048b
35	6353	17.6	-35 43	7.7	8.6	Fo	5	..	40276b	85	8210	18.0	-31 53	9.2	9.7	K2	1	..	40082b
36	5078	17.6	-50 45	9.0	9.2	Ao	5	..	38797b	86	5807	18.0	-41 57	9.5	9.5	A2	2	..	40189b
37	4699	17.6	-51 12	9.6	9.6	B9	4	..	38797b	87	6427	18.0	-44 50	7.9	8.3	Ao	5	..	40189b
38	4698	17.6	-51 15	9.8	9.2	A	3	..	38797b	88	6008	18.0	-46 4	8.5	8.6	G5	2	..	13040b
39	3305	17.6	-55 18	9.1	9.1	Ao	3	..	40250b	89	3325	18.0	-55 46	9.7	9.7	Ao	2	..	40250b
40	3177	17.6	-56 34	9.0	9.4	Ao	3	..	38749b	90	3052	18.0	-57 26	10.0	10.0	Ao	2	..	38749b
41	1534	17.6	-62 50	9.5	9.5	A	2	..	40221b	91	1856	18.0	-60 34	var.	var.	Go	2	5,2 R	31521b
42	1535	17.6	-62 57	8.2	9.0	G5	3	..	40221b	92	446	18.0	-80 26	8.1	8.9	G5	3	..	13465b
43	1477	17.7	+52 27	9.4	9.9	F8	2	..	38665i	93	2005	18.1	+30 7	6.46	7.46	Ko	6	..	38203i
44	1955	17.7	+49 36	8.42	8.84	F5	4	E	38665i	94	2237	18.1	+14 24	8.54	8.82	Fo	4	..	37724i
45	2906	17.7	- 8 54	7.22	8.57	Ma	5	..	40281b	95	2301	18.1	+ 6 12	6.50	6.84	F2	9	..	13402b
46	3036	17.7	-17 6	9.6	9.7	A5	2	..	40313b	96	7976	18.1	-26 3	9.5	10.0	K5	1	..	39939b
47	8121	17.7	-28 30	9.5	9.8	Fo	1	..	39939b	97	5975	18.1	-40 29	10.1	9.9	F5	2	..	39922b
48	8124	17.7	-29 4	7.7	7.9	G5	4	..	13048b	98	5809	18.1	-41 9	4.99	6.5	K5	..	5,9 R	28,204
49	8206	17.7	-31 55	8.4	8.9	F5	3	..	40082b	99	6171	18.1	-42 43	9.4	9.5	F8	3	..	40189b
50	6662	17.7	-34 42	9.4	10.1	G	1	..	40082b	100	5576	18.1	-48 48	7.6	8.3	B3	7	..	13040b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

90000

10^h 18^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5574	18.1	-49 2	7.8	8.3	Fo	5	..	13040b	51	649	18.4	-75 13	9.1	10.2	K2	2	..	21453b
2	5191	18.1	-49 16	8.5	9.5	K2	1	..	13040b	52	1888	18.5	+26 51	9.6	10.4	G5	1	..	38203i
3	5193	18.1	-49 42	10.0	9.5	A3	3	..	13040b	53	2481	18.5	+20 4	9.7	10.3	Go	3	..	37571i
4	1294	18.1	-67 49	8.1	8.2	A2	6	..	40297b	54	2356	18.5	+3 8	8.5	9.3	G5	4	..	38242i
5	538	18.1	-78 32	9.7	10.3	Go	2	..	21453b	55	2431	18.5	+0 50	9.49	9.77	F	1	E	13378b
6	434	18.2	+74 18	8.7	9.9	K5	1	..	38663i	56	3133	18.5	-2 33	9.2	9.7	F8	2	..	13369b
7	2080	18.2	+41 5	8.9	9.7	G5	2	..	38640i	57	3132	18.5	-3 9	6.67	7.85	K5	5	..	38242b
8	2344	18.2	+39 32	7.77	8.19	F5	6	..	38640i	58	3152	18.5	-13 6	9.6	10.7	K2	1	..	19017b
9	2081	18.2	+26 4	6.87	7.87	Ko	5	..	38203i	59	2909	18.5	-22 20	9.8	9.5	F8	1	..	40303b
10	2291	18.2	+7 27	10.0	11.2	K5	1	..	13394b	60	6917	18.5	-33 39	9.1	9.4	Fo	2	..	40082b
11	2319	18.2	+2 45	8.1	8.4	Fo	5	..	19341b	61	5979	18.5	-40 19	10.8	10.1	A2	2	..	39922b
12	3021	18.2	-7 16	8.0	9.0	Ko	4	..	13379b	62	6205	18.5	-44 5	8.9	10.3	Go	2	..	40189b
13	3103	18.2	-14 55	9.6	10.4	G5	1	..	19017b	63	5584	18.5	-48 29	9.8	9.8	F5	3	..	38573b
14	3043	18.2	-15 41	8.9	9.9	Ko	3	0,2	19017b	64	5091	18.5	-50 35	9.2	9.6	Ko	2	..	38573b
15	3038	18.2	-16 21	9.3	10.4	K2	1	..	40313b	65	3529	18.5	-54 33	8.4	7.9	A2	5	..	40250b
16	7876	18.2	-26 10	8.3	9.2	Ko	3	..	39939b	66	2136	18.5	-58 17	8.2	8.1	F2	4	0,7	31521b
17	6425	18.2	-38 30	8.8	10.1	K5	2	..	39922b	67	1604	18.5	-61 32	8.4	9.2	G5	2	..	40221b
18	6334	18.2	-39 20	9.7	10.1	K2	1	..	40276b	68	2124	18.6	+34 41	7.27	8.62	Ma	4	..	37582b
19	3191	18.2	-57 0	10.0	10.0	B9	2	..	38749b	69	3051	18.6	-21 47	9.6	9.6	F5	2	..	40303b
20	1252	18.2	-64 42	7.3	7.3	Ao	7	..	40297b	70	7990	18.6	-25 11	9.38	9.7	F2	3	..	22920b
21	690	18.2	-75 6	9.44	10.2	K5	1	..	21453b	71	8306	18.6	-29 40	6.29	7.4	Fo	10	..	13048b
22	647	18.2	-75 20	9.9	9.9	Ao	4	..	21453b	72	8213	18.6	-32 4	8.1	9.1	K2	2	..	40082b
23	651	18.3	+67 28	8.7	9.2	F8	2	..	37346i	73	3696	18.6	-53 16	8.1	8.9	G5	4	..	40250b
24	2122	18.3	+34 42	7.27	8.27	Ko	3	..	37582b	74	3069	18.6	-57 46	6.54	7.5	Ko	3	5,9	43205b
25	2292	18.3	+7 18	10.7	11.2	F8	2	..	13394b	75	2079	18.6	-59 41	8.8	9.2	B	4	..	38749b
26	3104	18.3	-15 9	9.6	10.1	F8	2	..	19017b	76	1047	18.6	-70 40	8.7	9.1	F5	4	R	39946b
27	9246	18.3	-23 50	6.72	6.8	B9	9	..	13324b	77	1259	18.7	+59 46	9.31	10.31	Ko	1	..	37725i
28	7406	18.3	-27 31	7.7	8.6	Go	5	..	39939b	78	2248	18.7	+13 28	10.3	10.9	G	1	..	37724i
29	7296	18.3	-33 7	9.1	9.4	A5	3	..	40082b	79	2382	18.7	-1 47	7.7	8.5	G5	5	..	38242i
30	6500	18.3	-37 14	10.1	11.0	Ko	2	R	40276b	80	2871	18.7	-12 0	7.6	8.4	G5	7	..	19017b
31	6499	18.3	-37 14	10.3	11.0	Go	2	..	39922b	81	1606	18.7	-61 21	7.2	8.9	Ma	5	0,2-	21154b
32	6427	18.3	-38 30	10.5	10.4	Go	2	..	40189b	82	1313	18.7	-65 37	8.5	8.6	A3	5	..	40297b
33	6175	18.3	-43 3	9.0	9.8	Ko	2	..	13040b	83	3040	18.8	-16 51	9.3	10.3	Ko	1	..	40313b
34	5825	18.3	-47 29	7.5	7.4	Ao	7	..	38573b	84	2994	18.8	-19 44	8.3	8.4	A2	6	0,6	13324b
35	5195	18.3	-49 34	10.5	9.6	F5	2	..	40250b	85	5097	18.8	-51 7	8.0	8.0	B9	6	..	38797b
36	3683	18.3	-53 16	8.3	8.3	A2	6	..	39946b	86	2080	18.8	-59 16	7.7	7.4	Bo	7	..	38749b
37	1044	18.3	-70 39	8.5	8.5	Ao	7	..	22988b	87	1297	18.8	-67 17	8.7	8.7	Ao	4	..	40297b
38	976	18.3	-71 38	7.4	8.8	Mb	5	..	38640i	88	297	18.9	+83 4	5.34	5.68	F2	..	0,9 R	1691c
39	2081	18.4	+41 9	8.3	9.3	Ko	4	..	56,87	89	2136	18.9	+35 30	8.8	9.8	Ko	2	..	37582i
40	2123	18.4	+34 13	5.78	6.78	Ko	..	0,6	38203i	90	3139	18.9	-6 45	8.9	10.0	K2	1	..	13379b
41	2007	18.4	+30 42	8.7	9.5	G5	1	..	37724i	91	3041	18.9	-17 6	10.0	10.1	A2	1	..	40313b
42	2195	18.4	+15 20	8.7	9.5	G5	4	..	38242b	92	2910	18.9	-22 58	7.9	8.4	F8	6	..	40303b
43	2332	18.4	-0 24	6.62	7.40	G5	8	..	38242i	93	7994	18.9	-25 34	7.05	7.6	F2	8	..	22920b
44	2911	18.4	-3 35	6.10	6.08	B9	9	..	40247b	94	8145	18.9	-28 38	8.2	9.4	K2	2	..	39939b
45	3150	18.4	-12 53	6.54	7.04	F8	6	..	40313b	95	8144	18.9	-28 57	9.0	9.7	K2	2	0,1	22920b
46	2917	18.4	-19 13	9.3	9.8	Ko	1	..	40082b	96	8146	18.9	-29 5	10.3	10.0	K2	1	..	22920b
47	6667	18.4	-34 12	9.4	10.1	Ao	2	..	40276b	97	8310	18.9	-29 36	9.3	10.3	K5	2	0,1	22920b
48	6371	18.4	-35 56	8.8	10.7	K5	1	..	40250b	98	6186	18.9	-42 36	8.5	10.1	Ko	2	..	40189b
49	3688	18.4	-54 6	8.3	8.5	K2	3	..	38749b	99	3346	18.9	-55 16	8.9	9.4	A2	3	..	40250b
50	3065	18.4	-57 22	9.4	9.4	Ao	3	..		100									

THE HENRY DRAPER CATALOGUE.

90100

10^h 18^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3221	18.9	-56 57	10.5	10.6	A2	1	..	38749b	51	1612	19.2	-61 34	6.8	8.0	Ao	2	..	43205b
2	3088	18.9	-57 10	8.9	9.1	B5	5	..	38749b	52	1315	19.2	-65 12	8.08	8.3	Fo	6	..	40297b
3	1122	18.9	-68 49	7.8	8.6	G5	5	..	40297b	53	1985	19.3	+44 37	8.92	9.26	F2	2	..	38291i
4	982	18.9	-71 51	8.8	8.8	Ao	4	..	39946b	54	2013	19.3	+43 13	7.9	8.9	Ko	2	..	38291i
5	95	18.9	-89 1	7.53	8.9	K2	6	3.5	13459b	55	2361	19.3	+2 54	6.71	7.71	Ko	7	..	38242i
6	388	19.0	+76 25	8.1	8.9	G5	2	0.3	37465i	56	8316	19.3	-29 9	6.88	8.0	G5	6	..	13048b
7	605	19.0	+68 10	7.67	8.67	Ko	5	0.4	37346i	57	5831	19.3	-41 35	8.8	9.6	K2	3	..	40189b
8	3109	19.0	-14 46	9.2	10.3	K2	2	..	19017b	58	6191	19.3	-42 46	9.1	9.2	A2	4	..	40189b
9	2996	19.0	-19 25	9.1	9.5	G5	2	..	40313b	59	5595	19.3	-48 51	9.8	10.4	F8	2	..	38573b
10	3052	19.0	-21 41	9.3	9.5	K5	1	..	40303b	60	3556	19.3	-54 22	10.0	10.0	Ao	1	..	40250b
11	8411	19.0	-30 26	7.78	8.2	A2	5	..	13048b	61	3555	19.3	-54 58	8.7	10.3	K5	1	..	40250b
12	7307	19.0	-32 43	10.3	9.8	Ao	1	..	40082b	62	60	19.4	+88 23	8.74	9.24	F8	3	..	37793i
13	6921	19.0	-33 14	9.1	9.4	F8	3	..	40082b	63	1309	19.4	+59 27	8.76	9.76	Ko	2	..	37725i
14	6378	19.0	-35 53	8.5	9.5	K2	3	..	40276b	64	2136	19.4	+30 52	7.82	8.60	G5	3	..	38203i
15	5988	19.0	-40 12	7.34	8.9	K2	6	..	40276b	65	2240	19.4	+14 5	8.84	9.84	K	2	..	37724i
16	5827	19.0	-41 18	10.5	10.4	A2	3	..	40189b	66	3108	19.4	-14 7	9.2	9.7	F8	3	..	19017b
17	6187	19.0	-42 40	8.9	8.9	A2	5	..	40189b	67	3045	19.4	-16 56	8.7	9.7	Ko	3	0.3	13136b
18	4720	19.0	-51 57	9.1	9.5	F2	2	..	40250b	68	2999	19.4	-19 17	8.9	9.8	Ko	2	..	40313b
19	3551	19.0	-54 59	9.7	9.7	Ao	2	..	40250b	69	8417	19.4	-31 2	8.6	9.4	K2	1	..	13048b
20	1123	19.0	-68 27	8.9	10.0	K2	2	..	40297b	70	5833	19.4	-41 27	6.38	8.0	Ko	7	..	40189b
21	1124	19.0	-68 50	8.3	9.4	K2	3	..	40297b	71	6221	19.4	-43 37	8.9	10.0	G5	3	..	40189b
22	1478	19.1	+52 40	9.4	9.9	F8	1	..	38665i	72	5599	19.4	-48 17	9.4	10.1	Go	2	..	38573b
23	2217	19.1	+11 6	6.84	7.84	Ko	8	..	37724i	73	5597	19.4	-48 27	9.6	11.0	Ma	..	..	M
24	2355	19.1	+8 20	9.7	10.7	Ko	2	..	13394b	74	5598	19.4	-49 7	7.9	9.5	K2	4	3.3	38573b
25	2358	19.1	+2 52	6.43	7.43	Ko	8	..	38242i	75	5210	19.4	-49 51	8.2	8.6	F5	4	..	13040b
26	2336	19.1	-0 18	9.7	9.7	A	2	..	19393b	76	3717	19.4	-53 53	8.9	9.7	Ko	1	..	40250b
27	2861	19.1	-4 26	7.36	8.36	Ko	4	..	13369b	77	2145	19.4	-59 8	7.9	8.7	Bp	3	R	38749b
28	3154	19.1	-12 49	8.7	9.8	K2	2	..	19017b	78	2085	19.4	-59 11	10.1	10.1	Ao	1	..	38749b
29	3155	19.1	-13 10	8.9	9.9	Ko	2	..	19017b	79	626	19.4	-76 28	8.7	9.7	Ko	5	..	21453b
30	7310	19.1	-32 44	9.7	9.7	Ao	1	..	40082b	80	1189	19.5	+60 51	8.9	9.0	A5	2	..	37725i
31	6381	19.1	-36 7	9.1	9.3	A2	2	..	40276b	81	1261	19.5	+59 47	8.16	9.16	Ko	4	..	37725i
32	6509	19.1	-37 31	5.40	6.2	A3	..	..	56,128	82	1864	19.5	+48 4	8.1	9.3	K5	2	..	38291i
33	5839	19.1	-47 50	10.5	10.5	G5	1	..	38573b	83	2247	19.5	+25 7	8.2	9.0	G5	2	E	38208i
34	5205	19.1	-50 2	7.19	8.1	Fo	7	..	13040b	84	2383	19.5	-2 7	8.87	9.94	K2	4	..	19393b
35	3709	19.1	-54 6	9.2	9.1	B5	2	..	40250b	85	3140	19.5	-7 5	7.9	9.1	K5	4	..	13379b
36	3093	19.1	-58 2	8.4	8.8	Fo	6	..	38749b	86	3158	19.5	-12 36	9.1	9.9	G5	2	..	19017b
37	2143	19.1	-59 1	10.0	10.0	Ao	1	..	38749b	87	3105	19.5	-57 30	9.0	9.4	B	3	R	38749b
38	1871	19.1	-60 30	9.8	9.8	A	1	..	38749b	88	2148	19.5	-58 16	9.1	9.8	K2	3	..	38749b
39	1611	19.1	-61 51	8.3	8.7	Ao	4	..	31521b	89	1873	19.5	-60 10	8.60	9.6	Ma	2	0.1	38749b
40	94	19.1	-88 32	8.2	8.3	A2	5	3.5	13459b	90	1552	19.5	-62 32	9.8	9.8	A	2	..	40221b
41	1129	19.2	+62 37	8.7	8.8	A5	3	..	37725i	91	1226	19.5	-70 6	10.0	10.0	A	1	..	39946b
42	2119	19.2	+42 43	9.0	9.1	A5	2	..	38640i	92	986	19.5	-71 46	8.8	8.8	Ao	5	..	39946b
43	2358	19.2	+18 25	8.5	9.3	G5	2	..	37571i	93	2075	19.6	+37 33	8.8	9.8	Ko	1	..	38673i
44	2196	19.2	+15 39	9.5	10.5	Ko	1	..	38647i	94	2330	19.6	+5 1	8.9	9.3	F5	3	..	13394b
45	8314	19.2	-29 47	8.2	8.9	Ko	7	..	22920b	95	3026	19.6	-8 10	9.2	9.3	A3	3	..	13379b
46	8414	19.2	-31 3	8.0	9.4	Ko	1	..	13048b	96	3001	19.6	-19 28	9.1	9.8	Ko	2	..	40313b
47	6925	19.2	-33 46	8.5	8.5	A2	4	..	40082b	97	9258	19.6	-24 7	7.04	7.5	Go	7	..	13324b
48	6675	19.2	-34 26	8.8	9.5	Fo	2	..	40082b	98	7884	19.6	-26 56	8.2	8.7	Fo	5	..	39939b
49	6442	19.2	-44 15	8.8	8.8	Ao	4	..	40189b	99	6342	19.6	-36 49	9.5	9.8	G5	2	..	41389b
50	6065	19.2	-46 11	8.5	8.0	Ao	5	..	13040b	100	5995	19.6	-40 54	9.1	9.8	A2	3	1.3	39922b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

90200

10^h 19^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6224	19.6	-43 45	7.5	7.4	Ao	7	..	40189b	51	1986	20.0	+33 17	8.2	9.2	Ko	3	..	37582i
2	5601	19.6	-48 58	8.9	9.3	B3	3	3,3-	13040b	52	2219	20.0	+17 24	8.9	9.9	Ko	1	..	38647i
3	606	19.7	+67 53	8.7	9.5	G5	2	..	37346i	53	2221	20.0	+10 50	9.3	10.1	G5	1	..	37724i
4	1404	19.7	+53 8	7.36	7.78	F5	6	..	38638i	54	2351	20.0	+9 17	5.92	7.27	Ma	9	..	37724i
5	2076	19.7	+37 17	9.2	9.8	Go	2	..	38673i	55	3140	20.0	-18 9	Neb.	Neb.	Pe	..	R	76,22
6	2064	19.7	+36 42	6.63	7.63	Ko	8	..	37582i	56	6523	20.0	-38 5	7.48	7.9	Fo	6	..	40276b
7	2360	19.7	+18 1	8.1	8.9	G5	3	..	37571i	57	6197	20.0	-42 15	8.4	8.3	Ao	4	..	40189b
8	2252	19.7	+13 14	7.9	8.0	A2	6	..	37724i	58	6229	20.0	-43 32	7.4	7.6	A5	6	..	40189b
9	2219	19.7	+11 39	8.4	8.8	F5	6	..	37724i	59	6076	20.0	-46 19	9.1	8.5	Ao	3	..	13040b
10	2220	19.7	+11 22	9.3	9.6	F2	3	..	37724i	60	5608	20.0	-48 42	8.5	9.8	Ko	3	5,1	38573b
11	2650	19.7	+0 6	7.9	8.4	F8	4	..	38242i	61	4735	20.0	-51 47	10.0	9.8	Go	3	..	40097b
12	2337	19.7	+0 18	7.88	7.88	Ao	5	..	38242i	62	3244	20.0	-56 33	10.3	10.3	Ao	1	..	38749b
13	2384	19.7	+1 30	8.9	9.5	Go	4	..	19393b	63	2157	20.0	-58 10	8.6	8.6	B9	4	..	38749b
14	3137	19.7	+3 5	9.8	9.9	A3	3	..	19393b	64	1243	20.0	-66 24	5.28	5.1	B8	..	R	56,128
15	3056	19.7	+21 58	9.3	9.5	K2	2	..	40303b	65	2433	20.1	+1 30	9.3	9.7	F5	2	..	13378b
16	3055	19.7	+22 8	10.5	9.5	A2	1	..	40303b	66	9039	20.1	-24 55	9.2	10.2	Ko	1	..	22920b
17	5603	19.7	+49 2	8.2	9.5	K2	2	0,1	38573b	67	7895	20.1	-26 25	9.6	10.2	Ko	2	..	22920b
18	2090	19.7	+59 39	8.9	9.5	F8	3	..	38749b	68	7896	20.1	-26 47	8.3	8.5	F2	5	..	39939b
19	1874	19.7	+60 46	6.9	8.6	Ko	6	0,1	38749b	69	8432	20.1	-30 21	9.3	9.4	A2	1	..	13048b
20	1238	19.7	+66 10	9.8	9.8	A	1	..	40297b	70	7321	20.1	-32 59	7.7	8.9	K5	5	..	40082b
21	695	19.7	+75 0	10.0	10.1	A2	2	..	21453b	71	6004	20.1	-41 7	9.7	10.1	G5	1	..	15319b
22	1310	19.8	+59 39	7.66	8.66	Ko	7	..	37725i	72	5114	20.1	-50 31	9.6	9.8	Ko	1	..	38573b
23	1770	19.8	+46 58	8.8	9.4	G	1	..	38291i	73	3125	20.1	-57 9	9.1	9.4	Bo	4	..	38749b
24	2089	19.8	+41 25	8.5	9.5	Ko	4	..	38640i	74	2159	20.1	-58 42	6.8	8.4	Ko	8	5,2	38749b
25	2147	19.8	+10 29	8.5	9.5	Ko	2	..	37724i	75	1190	20.2	+61 20	9.4	10.4	Ko	1	..	37725i
26	2320	19.8	+1 49	8.4	9.4	Ko	1	..	38242i	76	2327	20.2	+39 46	7.32	8.50	K5	5	..	38640i
27	9035	19.8	+25 4	7.04	8.4	Ko	6	..	22920b	77	2128	20.2	+34 18	4.83	5.11	Fo	..	..	56,87
28	6392	19.8	+35 9	8.48	8.9	Fo	5	..	40082b	78	2222	20.2	+11 38	7.9	8.9	Ko	6	..	37724i
29	6357	19.8	+40 4	10.1	10.7	Ko	1	..	39922b	79	2305	20.2	+6 22	8.7	9.0	Fo	4	..	13402b
30	5856	19.8	+47 32	10.9	10.3	B9	2	..	38573b	80	2331	20.2	+5 41	8.6	9.7	K2	5	..	13394b
31	5605	19.8	+48 52	10.5	10.1	Ao	1	..	38573b	81	3051	20.2	-16 4	9.3	9.3	Ao	1	..	13136b
32	5604	19.8	+49 8	9.1	9.6	Ao	3	0,2	38573b	82	3003	20.2	-20 6	9.08	9.2	F	1	..	13324b
33	3371	19.8	+55 32	9.7	9.7	Ao	3	..	40250b	83	9040	20.2	-24 28	8.0	9.6	K5	3	..	22920b
34	2156	19.8	+58 30	8.6	8.7	B8	5	..	38749b	84	6686	20.2	-35 7	9.48	9.3	A3	2	..	40082b
35	160	19.9	+85 45	8.7	9.3	Go	3	..	37546i	85	6444	20.2	-39 1	8.5	9.6	Ko	3	..	40276b
36	2126	19.9	+33 49	8.8	9.8	Ko	2	..	37582i	86	4737	20.2	-51 34	9.6	9.5	A3	2	..	38797b
37	2218	19.9	+17 11	9.5	9.6	A2	3	..	38647i	87	3582	20.2	-54 59	9.7	9.7	Ao	1	..	40250b
38	2303	19.9	+6 5	8.4	9.6	K5	3	..	13402b	88	3250	20.2	-56 58	8.3	8.5	B3	7	..	38749b
39	3138	19.9	+3 1	9.1	10.2	K2	4	0,1	19393b	89	3127	20.2	-57 27	6.44	8.2	K2	2	2,8	43205b
40	2914	19.9	+3 28	9.2	10.2	Ko	5	0,2	19393b	90	696	20.2	-74 32	8.4	9.4	Ko	4	..	21453b
41	3067	19.9	+9 18	8.1	9.3	K5	3	..	13379b	91	1628	20.3	+46 40	9.0	9.4	F5	1	..	38291i
42	2927	19.9	+18 36	8.1	8.5	F5	5	..	13136b	92	2332	20.3	+5 36	8.9	9.3	F5	5	..	13394b
43	3169	19.9	+21 1	8.6	8.9	Ao	6	..	13324b	93	2333	20.3	+5 5	8.5	8.9	F5	7	..	13394b
44	3575	19.9	+54 51	9.4	9.7	Fo	2	..	40097b	94	7429	20.3	-27 32	9.5	9.9	G5	2	..	39939b
45	2091	19.9	+59 13	9.5	9.5	Ao	2	..	38749b	95	8328	20.3	-29 27	8.6	8.9	A3	2	..	13048b
46	1622	19.9	+61 13	8.3	9.0	Ko	4	2,3	21154b	96	6006	20.3	-40 38	8.5	7.9	Ao	7	..	40276b
47	1229	19.9	+70 2	9.8	9.8	A	2	..	39946b	97	6461	20.3	-44 57	9.8	9.4	Fo	2	..	15319b
48	606	19.9	+77 26	10.0	10.0	Ao	2	..	21453b	98	3550	20.3	-52 11	8.6	10.4	K5	1	..	40250b
49	1390	20.0	+54 54	7.11	7.89	G5	5	..	38638i	99	3252	20.3	-56 35	8.9	10.3	K5	1	..	38749b
50	2065	20.0	+35 56	6.57	7.57	Ko	7	..	37582i	100	2162	20.3	-58 25	8.6	9.0	Fo	3	..	38749b

THE HENRY DRAPER CATALOGUE.

90300

10^h 20^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1881	20.3	-61 4	8.0	8.9	Go	5	5.3	21154b	51	6465	20.7	-44 34	8.8	9.4	F8	2	..	15319b
2	1376	20.4	+54 29	8.3	9.4	K ₂	2	..	38638i	52	3755	20.7	-53 31	7.9	8.2	F ₅	7	..	40250b
3	2352	20.4	+9 16	7.7	8.0	F ₀	7	..	37724i	53	3263	20.7	-56 20	10.0	10.0	A ₀	2	..	40250b
4	2300a	20.4	+6 50	10.7	11.5	G ₅	2	..	13394b	54	3264	20.7	-56 49	10.3	10.3	B ₉	2	..	38749b
5	2434	20.4	+1 35	8.7	9.5	G ₅	1	..	38242i	55	1313	20.7	-67 47	8.1	9.1	K ₀	4	..	40297b
6	2386	20.4	-1 59	8.7	9.5	G ₅	2	..	38242i	56	541	20.7	-78 46	9.4	10.2	G ₅	3	..	21453b
7	8022	20.4	-25 51	7.30	8.4	K ₀	6	..	22920b	57	305	20.8	+82 7	9.1	9.6	F ₈	2	..	37465i
8	7901	20.4	-27 7	7.8	9.3	K ₂	3	..	39939b	58	612	20.8	+70 27	8.7	9.2	F ₈	2	..	38663i
9	6462	20.4	-45 8	10.0	9.5	F ₀	2	..	15319b	59	1986	20.8	+44 6	8.9	9.0	A ₅	2	..	38640i
10	5861	20.4	-47 50	10.5	10.0	B ₉	3	..	38573b	60	2193	20.8	+20 47	9.0	9.3	F	3	R	37571i
11	3552	20.4	-52 18	9.4	9.5	A ₂	3	..	40250b	61	2365	20.8	+3 26	6.75	6.75	A ₀	8	..	38242i
12	3748	20.4	-53 14	7.7	8.3	G ₅	5	..	40250b	62	3146	20.8	-6 34	5.85	7.03	K ₅	10	..	13379b
13	2163	20.4	-59 1	8.4	8.6	B ₀	4	..	38749b	63	3050	20.8	-16 15	9.1	10.5	Ma	..	..	M
14	2096	20.4	-59 50	8.6	10.1	Ma	1	..	38749b	64	2930	20.8	-19 6	7.07	7.07	A ₀	8	..	13136b
15	1626	20.4	-61 30	9.2	9.0	B	6	R	31521b	65	3061	20.8	-21 27	7.9	8.7	K ₀	6	..	13324b
16	995	20.4	-71 26	9.4	9.7	F ₀	2	..	39946b	66	8164	20.8	-28 42	6.80	8.4	K ₀	8	..	22920b
17	396	20.4	-82 25	6.71	8.3	K ₀	7	..	13465b	67	6011	20.8	-41 7	9.4	8.9	A ₂	4	..	15319b
18	653	20.5	+67 11	8.02	8.80	G ₅	4	..	37346i	68	5616	20.8	-48 26	10.0	9.6	A ₂	3	..	38573b
19	1269	20.5	+57 0	8.6	8.9	F ₂	3	..	38638i	69	5615	20.8	-49 0	10.2	10.1	A ₀	2	..	38573b
20	3161	20.5	-12 16	7.25	8.03	G ₅	8	..	19017b	70	4744	20.8	-51 18	8.9	9.3	A ₂	3	..	38797b
21	3160	20.5	-12 38	9.3	10.3	K ₀	1	..	19017b	71	3758	20.8	-53 49	7.1	8.2	Mb	7	..	40250b
22	3116	20.5	-14 32	8.5	9.3	G ₅	5	..	19017b	72	3143	20.8	-58 0	8.8	9.7	F ₅	2	..	38749b
23	3005	20.5	-19 18	8.2	8.9	G ₅	4	..	13136b	73	2359	20.9	+8 32	8.9	9.5	Go	3	..	13402b
24	2914	20.5	-23 2	9.1	9.6	K ₅	1	..	40303b	74	3030	20.9	-7 21	7.96	9.03	K ₂	4	..	13379b
25	5846	20.5	-41 21	8.2	8.9	F ₅	6	..	15319b	75	3072	20.9	-9 32	8.5	9.0	F ₈	3	..	13379b
26	6045	20.5	-45 41	8.6	10.6	Ma	2	0.1	38573b	76	6693	20.9	-34 14	9.1	10.4	K ₀	1	..	40082b
27	6086	20.5	-46 49	9.4	9.1	A ₃	2	..	13780b	77	6365	20.9	-36 46	9.5	9.8	A ₂	2	..	41389b
28	4741	20.5	-51 13	9.4	9.8	A ₅	2	..	38797b	78	5849	20.9	-41 23	9.9	9.3	B ₉	3	..	15319b
29	4739	20.5	-51 32	10.2	9.8	A ₂	1	..	38797b	79	6242	20.9	-43 23	10.5	10.0	A ₀	2	..	15319b
30	4740	20.5	-51 40	10.0	9.5	A ₂	3	..	38797b	80	5232	20.9	-49 25	9.6	9.8	F ₈	3	0.2	38573b
31	3588	20.5	-54 12	8.7	9.7	K ₂	1	..	40250b	81	2167	20.9	-58 20	8.6	9.3	A ₀	4	..	38749b
32	943	20.5	-72 32	10.2	10.3	A ₂	2	..	39946b	82	2101	20.9	-59 41	7.9	9.6	Mb	3	5.2	38749b
33	1866	20.6	+48 35	8.5	9.3	G ₅	3	..	38291i	83	1774	21.0	+47 26	8.5	9.3	G ₅	2	..	38291i
34	2129	20.6	+33 49	9.7	10.7	K	1	..	37582i	84	2221	21.0	+17 44	8.6	9.4	G ₅	2	..	37571i
35	6528	20.6	-37 48	6.80	7.2	A ₀	8	..	40276b	85	2197	21.0	+15 25	8.5	9.1	Go	2	..	38647i
36	6364	20.6	-39 45	8.5	9.6	K ₀	2	..	40276b	86	2328	21.0	+4 26	6.62	6.68	A ₂	9	..	38242i
37	5847	20.6	-42 7	10.3	9.8	F ₈	2	..	40189b	87	3162	21.0	-12 38	7.32	7.66	F ₂	9	..	19017b
38	5227	20.6	-50 1	9.64	9.8	G ₅	2	..	38573b	88	3118	21.0	-14 33	9.6	10.4	G ₅	2	..	19017b
39	3391	20.6	-55 46	8.6	9.4	A ₂	3	..	40250b	89	3145	21.0	-17 56	8.5	8.6	A ₂	4	..	13136b
40	1247	20.6	-66 9	8.3	8.4	A ₃	5	..	40297b	90	3006	21.0	-19 49	7.34	8.1	K ₀	6	0.8	13324b
41	1312	20.6	-67 54	8.6	8.6	B ₉	5	..	40297b	91	8440	21.0	-30 10	9.55	10.6	K ₀	2	..	22920b
42	651	20.6	-75 17	9.24	9.0	B ₈	7	..	21453b	92	6456	21.0	-38 10	10.3	10.1	K ₀	1	..	40276b
43	161	20.7	+84 55	7.44	8.44	K ₀	3	..	37465i	93	5850	21.0	-41 58	6.33	7.9	K ₀	8	..	40189b
44	777	20.7	+65 7	8.9	9.5	Go	2	..	37346i	94	6211	21.0	-42 17	9.8	9.8	A ₀	2	..	40189b
45	2068	20.7	+36 44	8.3	9.5	K ₅	3	..	37582i	95	5234	21.0	-49 54	10.0	10.4	Ro	1	..	38573b
46	2249	20.7	+25 14	7.31	8.31	K ₀	3	..	38203i	96	4746	21.0	-52 3	7.9	8.6	A ₂	6	..	40250b
47	2484	20.7	+19 54	8.75	8.81	A ₂	3	..	37571i	97	3147	21.0	-57 47	8.4	9.4	K ₀	5	..	38749b
48	2254	20.7	+13 40	8.5	9.3	G ₅	2	..	37724i	98	1890	21.0	-61 3	7.4	7.3	A ₀	3	..	43205b
49	2301	20.7	+7 22	8.5	9.7	K ₅	3	0.1	13394b	99	1268	21.0	-64 19	7.8	8.9	K ₂	2	..	38834b
50	8024	20.7	-26 5	8.2	9.9	K ₂	3	..	22920b	100	1263	21.1	+60 5	7.01	8.01	K ₀	9	..	37725i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

90400

10^h 21^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Pg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Pg.	Sp.	Int.	Rem.	Pl. No.
1	1270	21.1	+57 23	8.8	8.9	A2	4	..	37725i	51	4749	21.4	-52 4	7.7	8.3	Ao	8	..	40250b
2	2046	21.1	+28 53	8.8	9.2	F5	2	..	38203i	52	3290	21.4	-56 34	7.9	9.1	Ko	4	..	38749b
3	1890	21.1	+27 2	8.8	9.3	F8	1	..	38203i	53	3288	21.4	-56 50	9.4	9.7	Fo	4	..	38749b
4	2366	21.1	+3 3	9.3	9.6	F2	3	..	13378b	54	3164	21.4	-58 5	6.22	6.9	Fo	..	0.5	28,204
5	2340	21.1	-1 3	9.7	10.2	F8	2	..	19393b	55	1637	21.4	-61 22	8.9	9.8	K5	3	..	21154b
6	3055	21.1	-16 8	8.5	8.9	F5	5	..	13136b	56	1320	21.4	-67 38	8.6	8.6	Ao	9	..	40297b
7	3007	21.1	-19 29	9.8	9.6	A2	1	..	40313b	57	999	21.4	-71 13	8.3	8.6	F2	6	..	39946b
8	7912	21.1	-26 29	10.0	10.5	F8	2	..	22920b	58	627	21.4	-76 34	9.6	10.1	F8	4	..	21453b
9	6951	21.1	-33 16	8.8	8.5	A2	6	..	40082b	59	901	21.5	+63 24	8.37	9.37	Ko	4	..	37725i
10	6458	21.1	-38 10	9.1	9.5	Fo	2	..	40276b	60	2486	21.5	+20 1	8.8	9.3	F8	5	E	3757ii
11	5851	21.1	-41 45	9.1	11.2	Fo	4	..	40189b	61	2308	21.5	+6 33	8.5	8.6	A2	5	..	13402b
12	5235	21.1	-49 36	6.88	7.7	Fo	8	..	13040b	62	3146	21.5	-17 15	8.5	9.3	G5	2	..	13136b
13	3151	21.1	-57 31	10.0	10.0	Ao	3	..	38749b	63	3174	21.5	-20 29	8.9	9.2	Go	4	..	13324b
14	1064	21.1	-70 14	8.38	9.5	K5	2	..	39946b	64	9055	21.5	-24 57	9.5	10.2	G5	2	..	22920b
15	725	21.1	-73 13	9.6	9.6	Ao	3	0.2	21453b	65	8036	21.5	-25 12	8.82	9.6	Ko	4	..	22920b
16	1775	21.2	+47 13	8.8	9.1	F2	2	..	38291i	66	6019	21.5	-40 31	9.7	9.2	Ao	3	..	40276b
17	2078	21.2	+36 56	8.6	10.0	Ma	3	..	37582i	67	3293	21.5	-56 23	9.1	9.4	A3	3	..	38749b
18	2131	21.2	+34 23	10.2	10.8	Go	3	..	37582i	68	2115	21.5	-59 44	10.4	10.4	B9	2	..	38749b
19	2243	21.2	+14 46	8.79	9.29	F8	2	..	38647i	69	1257	21.6	+58 9	9.1	10.1	Ko	1	..	37725i
20	2225	21.2	+11 0	7.6	8.6	Ko	6	..	37724i	70	2123	21.6	+42 6	5.80	5.86	A2	8	..	38291i
21	2920	21.2	-3 33	8.9	10.0	K2	5	0.1	19393b	71	2195	21.6	+20 56	7.9	8.7	G5	5	0.4	3757ii
22	6473	21.2	-44 41	8.2	8.8	F5	4	..	13780b	72	2487	21.6	+19 52	6.29	7.29	Ko	7	0.7	38647i
23	6472	21.2	-44 48	10.9	10.0	A	1	..	13780b	73	2341	21.6	-0 29	6.78	7.78	Ko	7	..	38242i
24	6095	21.2	-46 10	10.9	11.6	Mb	..	..	M	74	2919	21.6	-22 54	9.3	9.5	Go	2	..	40303b
25	1273	21.2	-64 44	8.2	8.7	F8	2	..	38834b	75	8340	21.6	-29 21	8.6	9.5	Ko	4	..	22920b
26	699	21.2	-74 32	9.3	9.4	A2	4	..	21453b	76	8337	21.6	-29 37	8.6	8.5	A2	5	..	13048b
27	1405	21.3	+53 8	9.4	10.2	G5	2	..	38665i	77	4753	21.6	-51 40	9.6	10.1	F8	2	..	40097b
28	2256	21.3	+12 58	8.0	8.8	G5	4	..	37724i	78	1235	21.6	-69 25	7.6	8.8	K5	8	..	40297b
29	2303	21.3	+6 56	8.9	9.9	Ko	3	..	13394b	79	670	21.7	+66 22	9.9	10.5	Go	1	..	37346i
30	3062	21.3	-5 56	6.91	6.91	Ao	8	..	13379b	80	2070	21.7	+36 27	9.3	9.7	F5	3	..	37582i
31	3119	21.3	-14 28	9.2	9.7	F8	2	..	19017b	81	2222	21.7	+23 54	9.2	9.8	Go	2	E	38208i
32	3052	21.3	-16 20	4.06	5.24	K5	..	R	1589c	82	2227	21.7	+23 16	9.0	10.0	Ko	2	E	38208i
33	3008	21.3	-19 17	9.2	9.5	F8	1	..	40313b	83	2366	21.7	+18 34	8.7	9.5	G5	2	..	3757ii
34	3286	21.3	-56 34	8.3	8.5	B9	6	..	38749b	84	2655	21.7	+0 21	8.1	9.2	K2	4	..	38242i
35	3160	21.3	-57 30	10.0	10.0	B9	2	..	38749b	85	2921	21.7	-3 53	6.60	7.60	Ko	8	..	38242i
36	2111	21.3	-59 17	8.6	8.9	B8	4	..	38749b	86	3056	21.7	-17 12	9.1	9.1	A	3	..	13136b
37	700	21.3	-75 4	9.7	9.7	Ao	3	..	21453b	87	3147	21.7	-17 17	9.2	9.3	A2	4	..	13136b
38	432	21.3	-81 9	7.30	7.2	A5	8	..	13465b	88	8449	21.7	-30 8	8.80	8.8	Ao	4	..	13048b
39	780	21.4	+65 18	9.6	10.2	G	1	..	37346i	89	3300	21.7	-57 4	9.2	9.7	F8	4	..	38749b
40	1377	21.4	+54 11	8.1	9.1	Ko	3	..	38638i	90	2182	21.7	-58 22	6.9	6.9	B9	3	..	43205b
41	2014	21.4	+30 11	7.81	8.15	F2	4	..	38203i	91	451	21.7	-80 14	9.06	9.7	K2	1	..	21530b
42	1893	21.4	+27 10	8.3	9.1	G5	2	..	38203i	92	491	21.8	+72 13	10.4	11.2	G5	1	..	38663i
43	2254	21.4	+25 26	7.9	8.9	Ko	2	..	38203i	93	2329	21.8	+39 50	7.52	7.94	F5	7	..	38640i
44	2224	21.4	+17 44	7.42	7.92	F8	7	0.7	38647i	94	2488	21.8	+20 20	8.9	9.4	F8	4	E	3757ii
45	2244	21.4	+14 8	7.41	8.41	Ko	5	..	37724i	95	2356	21.8	+9 2	9.5	10.7	K5	1	..	13394b
46	2390	21.4	-1 50	9.5	10.0	F8	3	..	19393b	96	2361	21.8	+8 9	9.3	9.8	F8	3	..	13394b
47	2880	21.4	-11 34	8.5	9.5	Ko	2	..	19017b	97	2872	21.8	-4 35	10.2	10.2	Ao	2	..	13379b
48	8035	21.4	-25 39	9.3	10.8	K2	1	..	22920b	98	3065	21.8	-21 15	9.2	9.8	Ko	2	..	40303b
49	7913	21.4	-26 29	9.2	10.5	K5	2	..	22920b	99	9289	21.8	-23 33	9.5	10.1	Ko	1	..	40303b
50	6702	21.4	-34 15	9.5	10.1	A2	1	..	40082b	100	9059	21.8	-24 51	10.0	9.9	A2	3	..	22920b

THE HENRY DRAPER CATALOGUE.

90500

10^h21^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Pg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Pg.	Sp.	Int.	Rem.	Pl. No.
1	7918	21.8	-26 35	10.7	10.8	Go	1	..	22920b	51	3419	22.1	-56 7	8.5	8.2	B8	5	..	40250b
2	8341	21.8	-29 30	9.0	8.5	Fo	4	..	13048b	52	3193	22.1	-57 22	9.9	10.0	A2	1	..	38749b
3	5881	21.8	-48 6	8.5	10.3	Ma	3	..	38573b	53	3189	22.1	-57 54	9.7	9.7	B8	4	..	38749b
4	4757	21.8	-51 33	10.0	10.1	A3	2	..	40097b	54	2331	22.2	+ 4 22	8.1	9.3	K5	3	..	13394b
5	1257	21.8	-67 0	8.4	9.5	K2	2	..	40297b	55	3155	22.2	- 7 9	9.6	9.9	F	1	..	13379b
6	1003	21.8	-71 36	9.3	10.3	Ko	1	..	39946b	56	3038	22.2	- 7 57	9.8	10.1	Fo	1	..	13379b
7	1960	21.9	+49 29	6.81	7.59	G5	5	..	38291i	57	8345	22.2	-29 34	8.3	7.9	Ao	5	..	13048b
8	1961	21.9	+49 19	6.50	7.06	Go	6	5,7 R	38672i	58	8260	22.2	-31 29	8.6	8.8	Ao	3	..	13048b
9	2093	21.9	+41 43	7.14	8.14	Ko	3	..	38291i	59	6225	22.2	-42 54	8.4	9.3	K2	3	..	40189b
10	1992	21.9	+33 33	8.2	9.2	Ko	3	..	37582i	60	6490	22.2	-44 38	10.2	10.2	A3	2	..	15319b
11	2217	21.9	+22 7	8.4	9.5	K2	3	2,2	37571i	61	5888	22.2	-47 35	9.2	9.4	G5	3	..	38573b
12	2211	21.9	+11 49	6.60	7.38	G5	8	..	37724i	62	3307	22.2	-56 51	10.0	10.0	Ao	1	..	38749b
13	2440	21.9	+ 1 18	8.9	10.0	K2	3	R	13378b	63	2193	22.2	-58 18	10.5	10.3	B	2	..	38749b
14	3060	21.9	-15 52	8.5	9.3	G5	3	..	13136b	64	1403	22.2	-63 37	8.1	8.1	B9	3	..	40221b
15	3012	21.9	-19 57	8.9	8.9	Ko	3	2,3	40313b	65	1076	22.2	-71 7	7.7	8.8	K2	7	..	39946b
16	9291	21.9	-23 22	9.6	10.4	Ko	1	..	40303b	66	1630	22.3	+46 41	7.57	8.07	F8	5	..	38291i
17	5861	21.9	-41 25	9.7	9.5	Ao	4	..	15319b	67	1895	22.3	+27 44	8.4	9.0	Go	2	..	38203i
18	6222	21.9	-42 14	6.28	7.9	K2	7	..	40189b	68	2489	22.3	+20 38	8.9	9.7	G5	3	R	37571i
19	6486	21.9	-45 2	7.68	8.9	G	2	R	39916b	69	2152	22.3	+10 16	5.87	5.87	Ao	10	..	37724i
20	6487	21.9	-45 4	7.44	8.2	Go	6	..	13780b	70	2306	22.3	+ 7 43	8.5	8.8	F2	7	..	13402b
21	3180	21.9	-57 13	10.0	10.0	Ao	1	..	38749b	71	2336	22.3	+ 4 49	9.36	10.36	Ko	2	..	13394b
22	2118	21.9	-59 52	9.7	9.8	A2	2	..	38749b	72	2333	22.3	+ 4 4	7.22	8.22	Ko	5	..	38242i
23	2019	22.0	+43 30	8.7	9.9	K5	1	0,1	38291i	73	2925	22.3	- 8 38	8.7	8.8	A3	4	..	13379b
24	2258	22.0	+12 57	8.0	9.0	Ko	4	..	37724i	74	3150	22.3	-17 45	7.83	8.83	Ko	4	..	13136b
25	2442	22.0	+ 1 34	9.7	10.1	F5	2	..	13378b	75	6542	22.3	-37 37	8.1	8.1	F8	6	..	41389b
26	3143	22.0	- 2 33	8.7	9.8	K2	5	2,1	19393b	76	5891	22.3	-47 39	10.9	10.3	Ao	1	..	38573b
27	2873	22.0	- 5 10	8.85	9.27	F5	3	..	13379b	77	3635	22.3	-54 57	9.04	8.5	A2	5	..	40250b
28	3067	22.0	- 6 4	9.6	9.7	A2	1	..	13379b	78	3197	22.3	-57 20	9.9	9.7	B3	2	..	38749b
29	7920	22.0	-26 39	9.8	9.9	A3	3	..	22920b	79	1902	22.3	-60 20	8.0	8.1	B9	7	1,2	38749b
30	8259	22.0	-31 46	8.2	8.9	F8	4	..	13048b	80	656	22.4	+67 5	9.4	9.8	F5	1	..	37346i
31	6223	22.0	-42 23	8.6	9.5	Ko	2	..	40189b	81	3039	22.4	- 7 18	8.2	9.4	K5	2	..	13379b
32	6260	22.0	-43 58	9.8	10.5	K2	1	..	15319b	82	6971	22.4	-33 31	8.8	10.0	G5	2	..	40082b
33	3624	22.0	-54 29	7.2	8.2	Ma	5	..	40250b	83	6390	22.4	-39 24	9.5	10.1	Ko	1	..	41389b
34	1074	22.0	-70 52	9.9	10.0	A3	2	..	39946b	84	6027	22.4	-40 41	9.1	9.6	F2	2	..	41389b
35	1073	22.0	-71 3	9.6	10.0	F5	2	..	39946b	85	6491	22.4	-44 41	10.0	9.5	Fo	2	..	13780b
36	453	22.0	-81 3	8.3	8.8	F8	2	..	20869b	86	3793	22.4	-53 23	7.0	7.9	K5	4	..	40250b
37	2080	22.1	+37 13	4.41	5.41	Ko	..	..	56,87	87	3794	22.4	-54 1	8.9	10.6	Ma	1	..	40250b
38	2122	22.1	+16 17	8.22	9.29	K2	3	..	38647i	88	2196	22.4	-58 45	9.1	10.0	B9	2	..	38749b
39	2330	22.1	+ 4 33	9.15	9.57	F5	3	..	13378b	89	733	22.4	-73 32	4.08	4.50	F5	..	R	28,204
40	2321	22.1	+ 2 1	8.3	9.5	K5	1	..	13378b	90	1131	22.5	+61 53	8.9	9.9	Ko	1	..	37725i
41	3145	22.1	- 2 31	9.3	10.4	K2	3	..	19393b	91	2145	22.5	+35 3	10.0	11.0	Ko	2	..	37582i
42	2924	22.1	- 4 4	8.7	9.2	F8	5	2,2	19393b	92	2203	22.5	+14 47	9.39	9.89	F8	1	..	38647i
43	2923	22.1	- 8 43	8.9	9.4	F8	3	..	13379b	93	2338	22.5	+ 4 59	9.3	10.5	K5	1	..	13394b
44	2881	22.1	-11 50	8.6	9.4	G5	3	..	19017b	94	2344	22.5	- 0 28	8.5	9.5	Ko	3	..	38242i
45	3057	22.1	-17 6	9.1	10.2	K2	1	..	13136b	95	3147	22.5	- 3 1	8.5	8.8	Fo	4	..	38242i
46	6969	22.1	-33 11	8.5	8.8	F5	5	..	40082b	96	3060	22.5	-16 55	8.1	9.1	Ko	5	..	13136b
47	6967	22.1	-34 4	9.4	9.4	Ao	3	0,2	40082b	97	2921	22.5	-22 21	10.5	9.5	Ao	2	..	40303b
48	6713	22.1	-34 12	8.5	9.8	Mb	2	..	40082b	98	5257	22.5	-49 23	8.5	9.5	K5	2	..	13780b
49	6472	22.1	-38 52	6.90	7.7	Ko	7	..	40276b	99	3207	22.5	-58 7	9.4	9.4	B9	3	..	38749b
50	5250	22.1	-49 36	10.0	9.6	Fo	3	..	38573b	100	2126	22.5	-59 52	9.7	9.5	B	2	..	38749b

90600

10^h 22^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	787	22.6	+64 26	8.7	9.2	F8	3	..	37346i	51	2337	22.9	+ 3 50	7.7	7.7	Ao	5	..	38242i
2	1832	22.6	+45 43	6.49	7.49	Ko	6	..	38291i	52	2391	22.9	- 2 13	8.27	8.61	F2	3	..	38242i
3	2345	22.6	+19 5	8.6	9.6	Ko	3	E	37571i	53	3063	22.9	-16 48	9.3	9.9	Go	1	..	13136b
4	2213	22.6	+12 35	9.7	10.3	G	2	..	37724i	54	5873	22.9	-41 33	7.2	7.6	A2	10	..	15319b
5	2925	22.6	- 3 56	9.3	10.5	K5	1	..	19393b	55	6501	22.9	-44 15	9.4	10.0	G5	2	..	15319b
6	3153	22.6	-17 47	7.08	7.08	Ao	8	..	13136b	56	6127	22.9	-46 12	9.8	9.7	K2	2	..	38573b
7	3178	22.6	-20 56	8.6	8.9	G5	4	..	13324b	57	2205	22.9	-58 8	..	9.8	Oa	1	..	38749b
8	9296	22.6	-23 17	8.09	8.9	Ko	3	..	13324b	58	2132	22.9	-59 28	8.4	8.4	B9	4	0,7	31521b
9	8185	22.6	-28 34	10.0	10.8	A2	3	..	22920b	59	2131	22.9	-59 56	9.5	10.7	K5	1	..	38749b
10	8465	22.6	-30 24	4.42	6.6	K5	..	R	28,204	60	1904	22.9	-60 17	9.28	9.2	Ao	3	0,3	31521b
11	5895	22.6	-47 9	6.8	7.0	A5	..	5,10	56,128	61	1577	22.9	-62 48	7.3	7.3	Ao	4	..	43205b
12	3577	22.6	-52 56	8.6	9.2	B8	3	..	40250b	62	1265	23.0	+60 34	8.5	9.5	Ko	1	..	37725i
13	3642	22.6	-54 59	8.7	8.5	F5	5	R	40250b	63	2308	23.0	+ 7 14	8.9	9.9	Ko	5	..	13394b
14	3430	22.6	-55 15	9.28	10.3	Mb	2	..	40097b	64	3149	23.0	- 2 59	9.6	10.2	Go	2	..	19393b
15	3322	22.6	-56 49	8.5	9.1	B2	5	..	38749b	65	3171	23.0	-13 0	10.0	10.3	Fo	1	..	19017b
16	3213	22.6	-57 49	8.8	9.4	Ko	3	..	38749b	66	3172	23.0	-13 12	9.6	10.0	F5	1	..	19017b
17	3210	22.6	-58 7	9.6	9.7	A2	2	..	38749b	67	3062	23.0	-15 24	7.95	8.73	G5	4	..	13136b
18	782	22.7	+65 7	8.9	9.9	Ko	2	..	37346i	68	9298	23.0	-23 34	9.5	9.0	Ao	1	..	13324b
19	1631	22.7	+46 28	8.5	9.1	Go	2	..	38291i	69	6083	23.0	-45 13	9.74	9.1	Ao	2	..	13780b
20	2249	22.7	+14 36	9.7	10.3	Go	1	..	38647i	70	6129	23.0	-46 21	10.0	10.3	A3	3	..	38573b
21	2358	22.7	+ 8 49	8.3	9.4	K2	4	..	13394b	71	6130	23.0	-46 54	9.8	8.9	F8	4	..	38573b
22	2923	22.7	-22 42	8.8	9.0	G5	2	..	13324b	72	5263	23.0	-49 31	9.8	9.5	A2	2	..	13780b
23	8188	22.7	-28 29	9.5	11.1	K	1	..	22920b	73	5264	23.0	-49 46	8.2	9.3	K5	3	..	13780b
24	6399	22.7	-36 42	8.1	9.3	Mb	3	..	41389b	74	5152	23.0	-50 33	11.5	9.8	F5	2	..	40097b
25	6030	22.7	-40 39	8.1	8.6	F2	5	..	41389b	75	4769	23.0	-52 7	9.0	9.3	Ao	3	..	40250b
26	3436	22.7	-55 46	10.3	10.3	Ao	3	..	40097b	76	3808	23.0	-53 10	9.0	9.7	F5	3	..	40250b
27	3324	22.7	-56 37	8.9	9.7	B9	2	..	38749b	77	3651	23.0	-54 22	5.58	7.4	Ko	..	0,8	56,128
28	1573	22.7	-62 21	8.3	9.3	Ko	3	2,2	40221b	78	1262	23.0	-67 7	9.0	9.0	Ao	4	..	40297b
29	1007	22.7	-71 24	9.0	10.0	Ko	2	..	39946b	79	1011	23.0	-71 18	10.1	10.2	A2	2	..	39946b
30	735	22.7	-73 28	6.32	6.4	A2	..	..	28,204	80	654	23.0	-75 28	8.8	9.1	Fo	7	..	21453b
31	503	22.7	-79 9	9.5	10.3	G5	1	..	21453b	81	2146	23.1	+35 24	8.8	9.4	Go	5	..	37582i
32	615	22.8	+70 8	8.7	9.8	K2	1	..	38663i	82	1897	23.1	+27 26	8.06	9.06	Ko	1	..	38203i
33	671	22.8	+66 8	6.39	7.39	Ko	..	0,8	56,87	83	2123	23.1	+16 17	7.17	7.67	F8	6	3,6	37571i
34	1896	22.8	+26 48	9.3	9.7	F5	1	..	38208i	84	2205	23.1	+15 17	7.6	8.6	Ko	5	E	37724i
35	2926	22.8	- 9 3	8.8	9.8	Ko	1	..	13379b	85	3181	23.1	-21 14	8.7	9.5	Ma	2	..	13324b
36	3169	22.8	-13 9	9.6	10.7	K2	1	..	19017b	86	9300	23.1	-23 22	8.6	9.2	F5	2	..	13324b
37	3123	22.8	-14 58	8.9	9.7	G5	3	..	19017b	87	9299	23.1	-23 57	10.7	9.5	Go	1	..	40303b
38	3180	22.8	-20 55	8.8	9.5	K5	2	..	13324b	88	9083	23.1	-24 10	9.2	10.5	G5	1	..	40303b
39	7924	22.8	-26 9	9.8	10.2	F5	2	..	22920b	89	6270	23.1	-43 23	10.0	9.5	F5	2	..	15319b
40	7925	22.8	-26 44	9.5	11.1	K	1	..	22920b	90	5900	23.1	-47 32	10.0	10.6	Ko	1	..	38573b
41	8189	22.8	-28 21	9.5	11.1	Ko	2	..	22920b	91	5266	23.1	-49 10	8.9	9.8	K2	1	..	13780b
42	5149	22.8	-50 29	9.8	10.1	Ko	3	0,2	40097b	92	5265	23.1	-49 17	8.5	8.9	A5	4	..	13040b
43	5148	22.8	-50 54	8.4	8.6	Ao	4	..	38797b	93	1329	23.1	-67 50	8.6	9.7	K2	2	..	40297b
44	1260	22.8	-66 8	8.8	9.2	F5	2	..	40297b	94	1144	23.1	-68 52	9.1	9.2	A2	4	..	40297b
45	349	22.9	+78 0	7.84	8.62	G5	4	0,4	37465i	95	952	23.1	-72 58	9.6	9.6	Ao	2	..	40298b
46	1408	22.9	+53 9	9.1	10.1	Ko	2	..	38665i	96	436	23.2	+73 50	7.14	8.14	Ko	5	E	37714i
47	2082	22.9	+37 17	8.9	8.9	Ao	3	..	37582i	97	1410	23.2	+53 26	9.4	10.5	K2	1	..	38665i
48	2226	22.9	+23 52	9.6	10.2	Go	1	E	38208i	98	2147	23.2	+35 22	8.9	9.3	F5	4	..	37582i
49	2346	22.9	+19 26	8.5	9.0	F8	5	E	37571i	99	2261	23.2	+13 41	9.3	9.9	G	2	..	37724i
50	2307	22.9	+ 6 46	8.3	9.4	K2	4	..	13394b	100	2215	23.2	+11 59	7.9	8.7	G5	4	..	37724i

THE HENRY DRAPER CATALOGUE.

90700

10^h 23^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2878	23.2	- 4 19	9.2	9.6	F5	5	3,2	19393b	51	6285	23.6	-43 48	10.5	10.2	Ao	1	..	15319b
2	3182	23.2	-21 12	9.1	8.9	Go	3	..	13324b	52	6512	23.6	-44 35	7.4	8.2	Ko	5	..	13780b
3	5901	23.2	-47 10	8.5	8.0	Ao	5	..	13040b	53	6513	23.6	-44 46	8.6	9.7	K5	2	..	15319b
4	5157	23.2	-50 9	9.0	9.5	Ao	2	..	13780b	54	6514	23.6	-44 50	9.4	10.2	F8	2	..	15319b
5	5156	23.2	-51 2	8.3	9.3	K5	2	..	38797b	55	5649	23.6	-49 7	9.6	9.8	F8	1	..	38573b
6	3343	23.2	-57 6	7.2	7.9	Bo	6	..	38749b	56	3586	23.6	-52 37	9.0	10.4	K5	1	..	40097b
7	3237	23.2	-57 10	9.1	8.8	B	2	R	38749b	57	3830	23.6	-53 11	8.2	8.6	Ko	4	..	40250b
8	1290	23.2	-64 21	8.3	8.6	Fo	3	..	38834b	58	1015	23.6	-72 4	8.5	8.6	A3	6	..	40298b
9	2231	23.3	+17 38	7.07	7.85	G5	5	..	37571i	59	437	23.7	+74 18	8.07	8.07	Ao	5	0,5	38663i
10	2346	23.3	- 0 37	8.3	8.4	A2	3	..	38242i	60	2084	23.7	+37 14	10.0	10.3	F	2	..	37582i
11	3071	23.3	- 6 5	8.1	9.1	Ko	5	..	13379b	61	2349	23.7	+19 25	9.7	10.3	Go	2	..	38647i
12	6982	23.3	-33 54	7.56	7.9	Go	5	0,7	40082b	62	2157	23.7	+10 4	8.7	9.5	G5	2	..	37724i
13	307	23.4	+82 32	8.3	8.4	A5	5	..	37465i	63	2929	23.7	- 3 14	6.11	6.11	Ao	..	0,10	56,87
14	788	23.4	+63 51	7.42	8.42	Ko	4	..	37346i	64	2883	23.7	- 4 55	9.3	9.7	F5	2	..	13379b
15	1394	23.4	+55 20	7.38	8.38	Ko	4	..	38638i	65	2932	23.7	- 8 25	8.9	9.9	Ko	1	..	13379b
16	2074	23.4	+36 22	8.8	9.6	G5	3	..	37582i	66	3065	23.7	-15 39	8.9	10.0	K2	2	..	19017b
17	2021	23.4	+30 15	6.68	7.68	Ko	5	..	38203i	67	8059	23.7	-25 39	10.3	11.1	G5	1	..	22920b
18	2206	23.4	+14 52	7.14	8.14	Ko	7	..	37724i	68	5882	23.7	-41 31	8.1	9.3	K5	2	..	15319b
19	2251	23.4	+13 48	7.7	7.8	A2	8	..	37724i	69	5652	23.7	-49 7	9.4	9.5	F8	3	..	38573b
20	2446	23.4	+ 1 2	8.9	9.7	G5	1	..	38242i	70	5273	23.7	-49 48	9.8	9.5	Ao	3	..	13780b
21	3042	23.4	- 7 47	8.9	9.9	Ko	2	..	13379b	71	5162	23.7	-51 5	8.2	9.8	K5	1	..	38797b
22	3063	23.4	-15 47	8.1	8.9	G5	5	..	13136b	72	3256	23.7	-57 8	4.94	6.1	F5p	..	3,9 R	28,204
23	3064	23.4	-16 35	9.3	9.3	Ao	3	..	13136b	73	2219	23.7	-58 41	9.2	10.0	G5	2	..	38749b
24	6986	23.4	-33 34	8.8	8.5	Fo	3	..	13048b	74	1659	23.7	-61 31	7.9	8.3	F8	2	..	43205b
25	6490	23.4	-38 12	7.7	8.0	F8	8	..	41389b	75	2371	23.8	+ 3 9	7.6	7.9	F2	5	..	38242i
26	6279	23.4	-44 1	8.3	9.7	K2	3	..	15319b	76	2943	23.8	-19 1	6.90	7.90	Ko	8	..	13324b
27	3816	23.4	-54 5	10.3	10.3	Ao	1	..	40250b	77	3186	23.8	-21 2	9.6	9.2	F2	2	..	13324b
28	3454	23.4	-55 33	9.4	10.0	Go	3	..	40097b	78	2925	23.8	-22 18	8.9	8.9	A5	4	..	13324b
29	3352	23.4	-56 31	8.8	10.0	Ko	1	..	38749b	79	8202	23.8	-29 0	9.2	9.9	A2	4	..	22920b
30	3351	23.4	-56 41	9.0	9.1	Ao	4	..	38749b	80	6992	23.8	-33 48	9.4	9.4	Ao	1	..	13048b
31	1411	23.4	-63 51	7.4	7.4	Ao	7	0,7	31521b	81	6447	23.8	-35 43	7.41	7.9	F2	7	0,7	13048b
32	1268	23.4	-67 1	9.3	9.3	Ao	1	..	40297b	82	6095	23.8	-45 10	10.0	10.0	A2	1	..	15319b
33	1995	23.5	+33 29	8.6	9.2	Go	2	..	37582i	83	5908	23.8	-47 31	7.5	7.5	F5	7	..	13040b
34	2095	23.5	+26 24	9.6	10.4	G5	1	..	38208i	84	5275	23.8	-49 27	10.0	9.5	Ao	3	..	13780b
35	2368	23.5	+18 35	8.1	9.1	Ko	3	..	38647i	85	3834	23.8	-53 24	8.1	8.8	Ko	3	..	40250b
36	3082	23.5	- 9 23	7.72	8.72	Ko	5	..	13379b	86	2144	23.8	-59 26	8.8	8.6	B8	4	0,3	38749b
37	8055	23.5	-25 18	8.3	8.7	Go	6	..	22920b	87	657	23.8	-75 30	10.1	10.1	A	1	..	21453b
38	8056	23.5	-25 42	10.7	10.5	Ao	2	..	22920b	88	790	23.9	+64 23	8.2	9.4	K5	2	..	37346i
39	8360	23.5	-29 11	8.4	9.5	Ko	4	..	22920b	89	1484	23.9	+52 46	8.1	8.5	F5	5	..	38665i
40	6280	23.5	-43 50	7.08	7.6	G5	7	..	15319b	90	1633	23.9	+46 22	7.8	8.1	Fo	6	..	38291i
41	6511	23.5	-44 49	10.0	10.2	F2	2	..	15319b	91	2160	23.9	+10 39	7.6	8.1	F8	6	..	37724i
42	3457	23.5	-55 23	9.9	10.0	A3	3	..	40097b	92	3129	23.9	-13 57	8.1	9.2	K2	5	..	19017b
43	1346	23.5	-65 16	8.98	8.9	A2	2	..	40297b	93	3071	23.9	-21 54	9.2	9.8	Ko	1	..	13324b
44	656	23.5	-76 0	10.4	10.4	A	1	..	21453b	94	3072	23.9	-22 10	9.1	9.2	A3	3	..	13324b
45	789	23.6	+64 45	6.00	6.08	A3	10	..	37346i	95	9308	23.9	-23 54	9.0	9.2	G5	1	..	13324b
46	1395	23.6	+55 25	9.1	9.1	Ao	1	..	38638i	96	6146	23.9	-46 32	10.5	10.3	Ao	2	..	38573b
47	2335	23.6	+40 16	8.8	9.3	F8	2	..	38640i	97	5654	23.9	-48 46	8.0	8.6	B3	4	..	13040b
48	1887	23.6	+28 0	8.6	9.1	F8	2	..	38203i	98	5655	23.9	-48 54	6.04	8.0	K2	6	..	13040b
49	2658	23.6	+ 0 9	8.9	10.1	K5	2	..	19393b	99	3677	23.9	-54 41	8.9	10.6	A2	2	..	40250b
50	3073	23.6	- 5 48	7.7	7.7	Ao	9	..	13379b	100	3368	23.9	-56 57	9.2	10.0	G5	1	..	38749b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

90800

10^h 23^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Pm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3266	23.9	-57 53	10.2	10.0	B	2	..	38749b	51	4782	24.2	-51 33	9.2	9.6	A2	3	..	38797b
2	1911	23.9	-60 12	9.58	9.2	A	2	..	38749b	52	3384	24.2	-56 16	10.0	10.0	A	1	..	40250b
3	1273	23.9	-67 3	8.3	9.5	K5	1	..	40297b	53	2227	24.2	-58 14	4.08	4.36	Fo	..	O, R	28,204
4	1271	24.0	+56 52	8.7	9.1	F5	2	..	38638i	54	1663	24.2	-61 18	8.6	10.4	K5	1	..	21154b
5	1378	24.0	+54 13	9.4	9.9	F8	1	..	38665i	55	1589	24.2	-62 31	7.5	8.6	K2	2	2,4	43205b
6	1604	24.0	+51 31	7.56	7.84	Fo	7	..	38665i	56	1338	24.2	-68 0	7.9	7.9	B9	6	..	40297b
7	1605	24.0	+51 5	6.70	7.04	F2	8	..	38665i	57	1251	24.2	-69 23	8.5	8.5	B8	9	..	40297b
8	2148	24.0	+35 20	8.8	9.8	Ko	3	..	37582i	58	783	24.3	+64 47	8.85	9.41	Go	2	..	37346i
9	2161	24.0	+9 47	9.7	10.3	Go	1	..	13394b	59	1272	24.3	+57 5	7.9	9.0	K2	3	..	38638i
10	2367	24.0	+8 17	8.5	9.5	Ko	3	..	13394b	60	2097	24.3	+40 59	6.98	7.48	F8	8	..	38640i
11	9310	24.0	-23 56	8.6	8.6	F2	4	..	13324b	61	2057	24.3	+29 5	6.92	7.92	Ko	4	..	38203i
12	7942	24.0	-26 51	8.8	9.6	Ko	3	..	22920b	62	2233	24.3	+17 29	8.3	9.4	K2	1	..	38647i
13	7468	24.0	-28 7	8.3	11.1	K5	1	..	22920b	63	2343	24.3	+4 24	9.3	9.7	F5	2	..	13394b
14	6995	24.0	-33 10	8.5	10.0	K5	1	..	13048b	64	2347	24.3	-0 36	9.3	9.7	F5	3	..	19393b
15	3678	24.0	-54 53	9.7	9.7	B8	3	..	40097b	65	3067	24.3	-15 16	9.36	9.70	F2	2	..	19017b
16	3469	24.0	-55 42	7.7	8.2	A3	7	..	40250b	66	3075	24.3	-22 5	9.1	8.7	Ko	3	..	13324b
17	3269	24.0	-57 42	10.0	10.0	Ao	3	..	38749b	67	9094	24.3	-25 4	9.55	10.5	Ko	1	..	22920b
18	1299	24.0	-64 32	8.0	8.1	A3	6	..	38834b	68	6501	24.3	-38 22	7.6	8.9	K2	3	..	41389b
19	505	24.0	-79 10	9.5	10.5	Ko	1	..	21453b	69	6413	24.3	-39 33	10.1	9.5	Ao	3	..	41389b
20	574	24.1	+68 49	8.0	9.0	Ko	3	5,3	37346i	70	6102	24.3	-45 20	9.2	9.9	K2	1	..	15319b
21	2097	24.1	+26 41	9.2	9.5	Fo	2	..	38208i	71	3474	24.3	-56 3	8.8	9.4	Ao	3	..	40250b
22	2229	24.1	+24 30	8.2	8.5	Fo	5	..	38208i	72	3386	24.3	-56 42	7.4	7.2	B9	5	1,9	43205b
23	2217	24.1	+12 42	7.7	8.0	F2	7	..	37724i	73	2229	24.3	-58 51	9.3	9.3	B8	2	..	38749b
24	2368	24.1	+8 24	8.7	8.7	Ao	6	..	13394b	74	1354	24.3	-65 12	6.20	5.9	Ao	9	..	40221b
25	2372	24.1	+3 20	8.5	8.6	A2	5	..	13394b	75	1266	24.4	+60 16	8.7	9.9	K5	1	..	37725i
26	2931	24.1	-4 11	8.9	9.3	F5	5	3,1	19393b	76	1486	24.4	+51 55	8.9	9.2	F2	2	..	38665i
27	2887	24.1	-5 1	9.6	10.4	G5	1	..	13379b	77	2147	24.4	+38 13	8.7	9.7	K	4	R	37582i
28	2885	24.1	-11 46	8.7	9.7	Ko	1	..	19017b	78	1890	24.4	+28 22	7.76	8.26	F8	4	..	38203i
29	3066	24.1	-15 39	9.6	10.7	K2	1	..	19017b	79	2208	24.4	+15 12	9.3	10.3	Ko	1	..	38647i
30	3840	24.1	-53 57	9.1	10.3	Ma	1	..	40250b	80	2252	24.4	+14 40	8.79	9.35	Go	2	..	38647i
31	3376	24.1	-56 50	10.2	10.0	B	1	..	38749b	81	2348	24.4	-0 22	9.7	10.8	K2	1	..	19393b
32	3380	24.1	-56 53	9.1	9.4	B	1	..	38749b	82	3155	24.4	-2 14	5.24	5.22	B9	..	1, R	56,87
33	3379	24.1	-57 3	10.0	10.0	B9	2	..	38749b	83	8287	24.4	-31 47	8.6	9.5	F5	1	..	13048b
34	2225	24.1	-58 47	9.0	9.2	B3	3	..	38749b	84	4784	24.4	-51 12	9.1	9.8	K2	2	..	38797b
35	2146	24.1	-59 22	9.1	10.3	K2	1	..	38749b	85	4783	24.4	-52 4	7.8	8.3	G5	6	..	40250b
36	2148	24.1	-60 2	9.24	8.6	B9	3	0,5	31521b	86	3687	24.4	-54 49	8.3	9.1	K2	3	..	40250b
37	1588	24.1	-63 1	8.0	8.1	A3	4	1,4	31521b	87	546	24.4	-78 38	9.1	10.3	K5	3	..	21453b
38	658	24.2	+66 49	7.27	7.61	F2	5	..	37346i	88	415	24.5	+75 26	8.57	9.35	G5	4	..	37714i
39	1459	24.2	+56 30	4.84	5.26	F5	..	3,10	56,87	89	2086	24.5	+37 7	10.0	11.0	K	1	..	37582i
40	2357	24.2	+39 26	5.87	5.93	A2	8	..	38640i	90	2201	24.5	+21 11	8.9	9.9	Ko	1	R	38208i
41	2056	24.2	+29 2	8.2	9.3	K2	2	..	38203i	91	2938	24.5	-8 37	8.9	9.5	Go	2	..	13379b
42	2311	24.2	+6 46	7.8	8.9	K2	7	..	13394b	92	3131	24.5	-13 46	9.1	9.2	A2	2	..	19017b
43	3154	24.2	-3 1	8.9	9.5	Go	1	..	38242i	93	7476	24.5	-27 59	7.8	9.9	K5	4	..	22920b
44	2886	24.2	-11 56	7.9	8.9	Ko	5	..	19017b	94	8211	24.5	-28 25	9.2	9.9	Go	5	..	22920b
45	3130	24.2	-13 17	8.8	10.0	K5	1	..	19017b	95	8212	24.5	-29 4	9.6	9.6	Ao	4	..	22920b
46	3073	24.2	-21 45	8.8	9.3	K5	2	..	13324b	96	6504	24.5	-39 3	8.6	8.9	Fo	3	..	41389b
47	9312	24.2	-24 5	9.3	10.4	K2	1	..	40303b	97	6415	24.5	-39 45	9.5	9.5	Fo	3	..	41389b
48	8371	24.2	-29 13	9.0	9.4	F8	5	..	22920b	98	6294	24.5	-43 20	6.84	7.1	Ao	10	..	15319b
49	6101	24.2	-46 3	7.1	7.5	Ao	7	..	13780b	99	5177	24.5	-50 34	7.9	8.6	Ao	8	..	38797b
50	5278	24.2	-49 44	9.8	9.0	Ao	5	..	13780b	100	5176	24.5	-50 51	8.5	9.2	Fo	5	..	38797b

THE HENRY DRAPER CATALOGUE.

90900

10^h 24^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3287	24.5	-57 35	10.3	10.3	B9	2	..	38749b	51	1997	24.9	+33 27	9.6	10.2	G	1	..	37582i
2	1343	24.5	-67 47	8.8	10.0	K5	1	..	40297b	52	2227	24.9	+22 4	8.8	9.8	Ko	1	E	38208i
3	2125	24.6	+41 59	8.2	9.2	Ko	2	..	38640i	53	2204	24.9	+21 38	9.2	9.8	G	2	..	37571i
4	2369	24.6	+8 33	8.5	9.0	F8	6	..	13394b	54	3080	24.9	-21 32	7.04	7.7	Fo	8	..	13324b
5	2323	24.6	+2 0	6.85	7.27	F5	7	..	38242i	55	3079	24.9	-21 44	7.26	7.3	Ao	8	..	13324b
6	7950	24.6	-26 22	8.3	9.6	Ko	4	..	22920b	56	8216	24.9	-29 3	9.8	10.2	A3	3	..	22920b
7	6423	24.6	-36 24	8.1	8.6	F2	6	2,5	41389b	57	8381	24.9	-29 9	5.80	8.0	K5	..	5,9	56,128
8	6106	24.6	-46 3	9.8	9.6	F5	3	..	38573b	58	7389	24.9	-32 54	7.9	8.2	A2	7	..	13048b
9	4787	24.6	-51 17	9.0	9.8	Ko	1	..	38797b	59	6534	24.9	-44 52	9.2	9.9	G5	2	..	15319b
10	2232	24.6	-58 43	9.1	9.2	Ao	4	..	38749b	60	5924	24.9	-47 16	9.0	9.9	G5	1	..	13780b
11	2233	24.6	-58 48	9.1	9.2	A3	4	..	38749b	61	5672	24.9	-48 40	9.6	9.8	Go	2	..	38573b
12	2234	24.6	-58 50	var.	var.	G5	3	R	38749b	62	5292	24.9	-49 27	10.2	10.6	Ko	1	..	38573b
13	958	24.6	-72 13	9.1	10.3	K5	1	..	40298b	63	3707	24.9	-54 14	10.0	10.0	A	1	..	40250b
14	959	24.6	-72 40	6.8	8.2	Ma	8	..	40298b	64	3404	24.9	-56 24	9.3	9.4	A2	2	..	40250b
15	2202	24.7	+21 20	8.4	9.2	G5	4	E	38208i	65	1922	24.9	-60 16	9.5	10.9	Ma	..	..	M
16	8380	24.7	-30 2	8.60	8.9	F5	3	..	13048b	66	1595	24.9	-62 40	6.72	6.4	B3p	..	0,6 R	56,128
17	6577	24.7	-37 33	7.17	7.9	G5	8	..	41389b	67	702	24.9	-74 39	7.8	7.9	A5	8	..	21453b
18	5919	24.7	-47 56	8.2	9.3	Ko	3	..	13780b	68	459	24.9	-81 2	8.3	9.5	K5	1	..	13465b
19	4788	24.7	-51 50	9.4	9.6	A3	2	..	40250b	69	2396	25.0	-1 42	8.5	9.6	K2	2	..	38242i
20	3601	24.7	-52 9	9.4	10.4	Ko	1	..	40097b	70	9098	25.0	-24 34	9.2	9.0	Ao	7	..	22920b
21	3700	24.7	-54 40	9.8	9.7	B5	2	..	40250b	71	8217	25.0	-28 35	9.6	11.1	G5	1	..	22920b
22	3480	24.7	-55 18	10.0	10.0	Ao	2	..	40250b	72	8383	25.0	-30 5	5.65	5.8	B9	..	R	28,204
23	3482	24.7	-55 29	9.4	9.4	Ao	3	..	40250b	73	7391	25.0	-32 26	7.42	8.5	K2	4	..	13048b
24	1303	24.7	-64 24	8.5	8.6	A3	4	..	38834b	74	6054	25.0	-40 28	7.4	7.5	Ao	7	..	41389b
25	1091	24.7	-70 13	8.83	9.7	Ko	2	..	39946b	75	6112	25.0	-45 56	9.1	9.3	F2	4	..	38573b
26	660	24.7	-75 57	8.5	9.3	G5	7	..	21453b	76	5674	25.0	-48 26	8.8	9.0	A3	3	..	13040b
27	610	24.7	-77 52	10.3	10.3	A	1	..	21453b	77	5293	25.0	-49 36	10.9	10.1	Ao	2	..	38573b
28	1487	24.8	+52 20	8.5	8.8	F2	4	..	38665i	78	3710	25.0	-54 13	9.1	9.4	Fo	2	..	40250b
29	1744	24.8	+50 10	8.6	9.6	Ko	3	..	38665i	79	3414	25.0	-56 14	8.9	9.4	Ao	2	..	40250b
30	2087	24.8	+37 33	8.2	9.0	G5	5	..	37582i	80	3413	25.0	-56 44	6.7	7.8	Ko	3	5,7	43205b
31	2088	24.8	+36 46	6.77	7.05	Fo	..	0,8	56,87	81	611	25.0	-78 6	8.1	8.2	A5	10	..	21453b
32	1891	24.8	+27 51	8.2	9.2	Ko	2	..	38203i	82	548	25.0	-79 2	10.2	10.3	A3	2	..	21453b
33	2373	24.8	+3 35	8.7	8.8	A5	4	..	13394b	83	2344	25.1	+4 3	8.4	9.4	Ko	2	..	37731i
34	2934	24.8	-3 24	8.3	8.9	Go	4	..	38242i	84	3160	25.1	-3 12	8.8	9.1	F2	3	..	38242i
35	2933	24.8	-3 47	9.3	10.5	K5	2	0,1	19393b	85	2949	25.1	-18 26	8.5	9.6	K2	2	..	13136b
36	3161	24.8	-17 44	8.5	9.3	G5	3	..	13136b	86	6114	25.1	-45 50	10.9	9.9	Ao	2	..	38573b
37	6755	24.8	-34 31	8.5	9.5	K2	1	..	13048b	87	3308	25.1	-57 16	10.0	10.0	B8	1	..	38749b
38	6426	24.8	-36 9	8.8	9.2	A5	5	2,3	41389b	88	3312	25.1	-57 54	8.8	9.4	B8	4	..	38749b
39	6108	24.8	-45 10	9.0	9.9	K5	2	..	15319b	89	2240	25.1	-58 29	9.8	9.8	B8	1	..	38749b
40	6107	24.8	-45 16	9.1	9.9	Ko	2	..	15319b	90	2359	25.2	+39 31	7.57	8.64	K2	3	..	38640i
41	5670	24.8	-48 29	7.7	8.4	B5	6	..	13040b	91	2135	25.2	+34 39	9.17	9.59	F5	3	..	37582i
42	5288	24.8	-49 8	10.2	10.3	Ao	2	..	38573b	92	1998	25.2	+33 26	8.7	9.3	Go	3	..	37582i
43	5290	24.8	-49 21	9.2	9.2	Ao	4	..	13780b	93	2315	25.2	+6 14	8.5	9.6	K2	4	..	13394b
44	4790	24.8	-51 53	8.5	9.5	Ko	2	..	40250b	94	2663	25.2	-0 8	4.95	4.83	B5	..	3,10	56,87
45	2236	24.8	-58 21	8.2	8.9	Ko	5	..	38749b	95	3133	25.2	-13 53	9.6	10.0	F5	1	..	19017b
46	2153	24.8	-59 29	10.1	10.1	Ao	2	..	38749b	96	6511	25.2	-38 32	9.1	10.1	K2	1	..	41389b
47	1306	24.8	-64 13	9.2	9.2	Ao	1	..	38834b	97	6512	25.2	-38 48	8.9	9.6	Ao	2	..	41389b
48	1278	24.8	-66 52	8.3	8.9	Go	4	..	40297b	98	3863	25.2	-53 15	10.2	10.3	A5	3	..	40097b
49	961	24.8	-72 45	8.8	8.8	Ao	5	..	40298b	99	3860	25.2	-54 0	10.0	10.0	B8	2	..	40250b
50	609	24.9	+68 40	9.0	9.3	Fo	3	..	37346i	100	3716	25.2	-54 10	9.0	9.1	Ko	2	..	40250b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

91000

10^h 25^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	3719	25.2	-54 45	9.1	9.1	Ao	3	..	4025ob	51	3502	25.5	-56 1	8.9	9.1	B9	3	..	4025ob
2	3497	25.2	-56 5	8.9	9.4	A	1	..	4025ob	52	3428	25.5	-56 18	8.9	9.1	B9	4	..	4025ob
3	3313	25.2	-57 33	8.4	8.8	F8	5	..	38749b	53	2247	25.5	-58 40	8.9	9.2	B9	4	1,2	38749b
4	1671	25.2	-61 11	8.8	9.3	A5	5	..	21154b	54	2245	25.5	-59 6	7.9	8.6	A2	5	1,2 R	21154b
5	1360	25.2	-65 11	8.98	9.0	A2	2	0,1	38834b	55	1930	25.5	-60 28	9.3	9.3	Ao	2	..	21154b
6	1281	25.2	-66 16	8.9	9.2	Fo	2	..	40297b	56	1440	25.5	-63 40	5.25	7.8	K5	..	0,7-	56,128
7	1134	25.3	+62 16	9.1	9.9	G5	2	..	37725i	57	1164	25.5	-68 28	8.8	8.8	B9	4	..	40297b
8	1397	25.3	+55 4	9.0	9.3	F2	3	..	38638i	58	1258	25.5	-69 54	9.0	9.1	A3	4	..	40297b
9	2352	25.3	+19 9	9.3	10.1	G5	2	..	38647i	59	1096	25.5	-70 33	10.0	10.0	Ao	2	..	39946b
10	2314	25.3	+7 34	7.37	8.15	G5	9	..	13394b	60	1994	25.6	+43 47	8.1	8.4	F2	4	..	38291i
11	2325	25.3	+2 40	7.12	8.12	Ko	6	..	38242i	61	2079	25.6	+35 58	10.0	10.6	Go	2	..	37582i
12	3161	25.3	-2 44	9.3	9.7	F5	3	..	19393b	62	3073	25.6	-10 18	7.61	8.79	K5	4	..	13379b
13	3135	25.3	-14 6	8.9	10.1	K5	1	..	19017b	63	3029	25.6	-19 21	8.8	9.0	F8	3	..	13324b
14	3193	25.3	-20 57	9.8	9.5	Ao	2	..	13324b	64	9108	25.6	-24 22	8.8	9.6	Ko	3	..	2292ob
15	3081	25.3	-21 45	10.6	9.5	A	1	..	13324b	65	7962	25.6	-27 1	9.0	9.6	F2	4	..	2292ob
16	7960	25.3	-26 43	10.5	10.2	F5	2	..	2292ob	66	7404	25.6	-32 12	8.2	8.9	K5	2	..	13048b
17	7018	25.3	-34 3	8.8	9.8	F	1	..	13048b	67	6519	25.6	-38 33	9.7	10.1	Ao	1	..	41389b
18	6424	25.3	-39 39	11.9	10.1	Ao	2	..	41389b	68	3874	25.6	-53 32	9.4	9.4	Ao	2	..	4025ob
19	6304	25.3	-43 57	9.1	9.7	Ma	2	5,2	15319b	69	3875	25.6	-53 46	8.9	9.5	Ko	1	..	4025ob
20	6116	25.3	-45 59	9.1	10.5	K5	1	..	38573b	70	3732	25.6	-54 20	9.7	9.7	A	1	..	4025ob
21	5297	25.3	-50 4	9.49	9.6	F5	3	..	38573b	71	3506	25.6	-56 0	9.4	9.4	B9	2	..	4025ob
22	3320	25.3	-57 57	8.6	8.8	Ao	5	..	38749b	72	3430	25.6	-56 41	9.4	9.4	Ao	2	..	38749b
23	2243	25.3	-58 17	8.8	9.8	Ko	2	..	38749b	73	2163	25.6	-60 6	9.28	9.2	Ao	5	0,2	38749b
24	1925	25.3	-60 23	7.78	8.0	B3	6	0,7	21154b	74	1097	25.6	-70 13	9.53	10.0	Ko	1	..	39946b
25	1675	25.3	-61 33	9.8	9.8	Ao	1	..	21154b	75	343	25.7	+81 1	6.56	7.34	G5	7	..	37465i
26	1676	25.3	-62 5	8.9	8.9	Ao	2	..	43205b	76	2234	25.7	+24 31	8.4	9.5	K2	3	..	38208i
27	1677	25.3	-62 5	9.0	9.0	Ao	2	R	43205b	77	2890	25.7	-4 20	9.3	10.3	Ko	3	..	19393b
28	1023	25.3	-71 12	9.2	9.8	Go	2	..	39946b	78	9330	25.7	-23 20	8.1	8.4	Ao	5	..	13324b
29	1782	25.4	+47 22	7.63	8.70	K2	4	..	38291i	79	6438	25.7	-36 11	8.5	8.9	Ao	5	0,5	13048b
30	2315	25.4	+7 8	8.3	8.3	Ao	8	..	13394b	80	4799	25.7	-51 18	8.8	8.9	A2	5	..	4025ob
31	2889	25.4	-11 38	8.5	8.5	Ao	7	..	19017b	81	3332	25.7	-57 10	8.8	9.7	Ko	2	..	38749b
32	3069	25.4	-16 10	8.1	9.2	K2	3	..	13136b	82	2250	25.7	-58 43	9.6	9.6	B9	2	..	38749b
33	8076	25.4	-25 27	9.6	9.9	Go	2	..	2292ob	83	965	25.7	-72 22	10.3	10.3	Ao	1	..	40298b
34	6273	25.4	-42 33	7.0	8.0	K5	4	..	15319b	84	549	25.7	-78 26	9.3	10.5	K5	3	..	21453b
35	6274	25.4	-42 38	8.6	9.8	Ko	1	..	15319b	85	2316	25.8	+5 52	8.0	8.0	Ao	5	..	37731i
36	6308	25.4	-43 22	9.0	8.7	A2	4	..	15319b	86	2892	25.8	-4 33	9.3	9.4	A2	2	..	19393b
37	6157	25.4	-46 23	8.4	9.0	G5	2	..	13780b	87	3082	25.8	-22 1	9.6	8.9	Ao	3	..	13324b
38	6159	25.4	-46 55	10.5	10.8	G5	1	..	38573b	88	7968	25.8	-26 32	9.8	10.5	G5	1	..	2292ob
39	3425	25.4	-57 6	var.	var.	F2	6	R	38749b	89	6281	25.8	-42 38	7.6	7.5	B9	10	..	15319b
40	2161	25.4	-59 15	9.1	9.5	A3	3	1,3	38749b	90	5932	25.8	-47 48	9.1	9.0	A2	4	..	13780b
41	2160	25.4	-59 36	8.5	8.1	Ao	2	1,8	43205b	91	3878	25.8	-53 50	9.7	9.7	A	1	..	4025ob
42	1929	25.4	-60 39	9.7	10.3	Go	2	..	21154b	92	3433	25.8	-56 59	8.7	8.2	Ao	6	..	38749b
43	1439	25.4	-64 5	8.8	9.2	F5	2	..	38834b	93	3334	25.8	-57 28	8.4	10.2	Ma	2	..	38749b
44	663	25.4	-75 19	9.6	9.6	Ao	4	..	21453b	94	1310	25.8	-64 40	6.54	8.6	Ma	5	..	38834b
45	3164	25.5	-17 21	9.3	9.8	F8	1	..	13136b	95	1285	25.8	-66 12	8.4	8.4	Ao	4	..	40297b
46	3028	25.5	-20 5	8.88	9.0	F8	2	..	13324b	96	550	25.8	-78 14	8.8	8.8	B9	7	..	21453b
47	8298	25.5	-31 42	8.8	9.5	K2	1	..	13048b	97	672	25.9	+65 57	8.5	9.3	G5	3	..	37346i
48	5190	25.5	-50 44	9.6	10.4	K2	2	..	40097b	98	2317	25.9	+7 8	10.0	10.4	F5	1	..	13394b
49	3611	25.5	-52 16	8.3	9.2	K2	3	..	4025ob	99	6167	25.9	-46 51	8.6	8.7	Ao	5	..	13780b
50	3610	25.5	-52 52	8.8	9.6	Ao	1	..	4025ob	100	5934	25.9	-47 11	9.8	9.7	A2	3	..	13780b

THE HENRY DRAPER CATALOGUE.

91100

10^h 25^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3881	25.9	-53 33	8.2	8.2	Ao	6	..	40250b	51	2399	26.3	-1 55	8.9	9.9	Ko	2	..	19393b
2	3337	25.9	-57 36	9.7	9.7	Ao	1	..	38749b	52	3077	26.3	-5 53	9.3	9.6	Fo	2	..	13379b
3	404	26.0	+77 14	7.9	8.9	Ko	5	0.4	37714i	53	6481	26.3	-35 45	8.8	9.8	K2	2	..	41389b
4	2398	26.0	-2 2	8.7	9.7	Ko	2	..	38242i	54	3889	26.3	-53 32	9.0	9.1	B9	3	..	40250b
5	3172	26.0	-6 30	8.7	9.0	Fo	3	..	13379b	55	2173	26.3	-59 25	8.6	8.9	F8	4	3.3	31521b
6	3173	26.0	-7 7	6.40	7.58	K5	8	..	13379b	56	2172	26.3	-59 34	9.5	10.5	Ko	1	..	38749b
7	3034	26.0	-19 35	9.1	9.0	Ao	3	..	13324b	57	1938	26.3	-60 36	8.8	9.3	B9	4	..	21154b
8	2930	26.0	-23 13	9.1	9.0	F8	2	..	13324b	58	1489	26.4	+52 21	8.5	9.1	Go	2	..	38665i
9	6125	26.0	-45 23	9.2	9.4	A2	3	..	13780b	59	1873	26.4	+48 3	9.0	10.1	K2	1	..	38672i
10	..	26.0	-46 12	var.	var.	Md	..	R	56,201	60	1785	26.4	+47 2	8.7	9.3	Go	2	..	38291i
11	6169	26.0	-46 38	10.0	9.9	Ao	3	..	38573b	61	2040	26.4	+32 42	8.9	9.0	A3	2	..	37582i
12	3436	26.0	-56 41	9.7	9.7	Ao	2	..	38749b	62	2150	26.4	+31 16	9.0	9.8	G5	3	..	37582i
13	2169	26.0	-59 42	9.5	9.5	Ao	2	..	38749b	63	2031	26.4	+30 14	7.81	8.37	Go	5	..	37582i
14	438	26.1	+74 21	7.52	7.60	A3	7	0.7	38663i	64	2258	26.4	+25 14	7.91	8.91	Ko	3	..	38208i
15	1872	26.1	+47 53	9.4	10.4	Ko	1	..	38672i	65	2379	26.4	+3 22	6.58	7.58	Ko	7	..	38242i
16	2148	26.1	+31 34	8.4	9.4	Ko	3	..	37582i	66	2353	26.4	-0 31	9.0	9.8	G5	1	..	38242i
17	2162	26.1	+10 34	8.5	9.6	K2	1	..	38228i	67	2939	26.4	-3 14	8.8	9.9	K2	4	..	19393b
18	2894	26.1	-4 33	9.6	9.9	F2	3	..	19393b	68	3486	26.4	-10 31	8.1	8.1	A	9	R	22922b
19	2893	26.1	-11 15	8.1	8.6	F8	6	..	19017b	69	3487	26.4	-10 31	7.46	7.60	A5	9	R	22922b
20	3181	26.1	-13 5	5.51	5.49	B9	..	R	56,87	70	3184	26.4	-12 36	9.1	9.6	F8	2	..	19017b
21	3196	26.1	-20 42	9.1	8.9	Go	3	..	13324b	71	3166	26.4	-17 54	9.3	9.3	Ao	1	..	13136b
22	9337	26.1	-23 26	8.6	9.0	F8	2	..	13324b	72	..	26.4	-23 40	..	..	F5	7	R	13324b
23	9110	26.1	-24 43	8.6	8.7	B8	7	..	22920b	73	9339	26.4	-23 40	7.7	8.0	A3	7	R	13324b
24	6521	26.1	-38 33	7.55	7.5	G5	6	..	41389b	74	7972	26.4	-26 22	9.8	9.9	G5	3	..	22920b
25	3740	26.1	-54 28	7.9	7.9	A2	7	..	40250b	75	6446	26.4	-36 17	8.8	9.5	G5	2	..	41389b
26	3441	26.1	-56 10	9.1	9.1	B9	2	..	40250b	76	5694	26.4	-49 0	10.0	10.1	Go	1	..	38573b
27	1935	26.1	-60 33	9.0	10.3	K5	1	..	21154b	77	1368	26.4	-65 57	8.4	8.4	Ao	3	..	40297b
28	1686	26.1	-61 36	9.0	9.2	A5	4	..	21154b	78	1266	26.4	-69 22	9.1	9.2	A2	2	..	40297b
29	610	26.2	+68 25	8.9	9.9	Ko	2	..	37346i	79	1027	26.4	-71 18	8.6	9.1	F8	3	..	39946b
30	1999	26.2	+32 54	5.83	5.81	B9	10	..	37582i	80	664	26.4	-75 44	9.0	9.0	B8	7	..	21453b
31	2352	26.2	-1 2	9.5	9.9	F5	3	..	19393b	81	1995	26.5	+44 43	7.32	7.46	A5	6	0.6	38640i
32	3072	26.2	-17 5	8.9	9.5	Go	2	..	13136b	82	2151	26.5	+35 30	9.6	10.6	Ko	2	..	37582i
33	2954	26.2	-18 26	8.3	9.3	Ko	2	..	13136b	83	3165	26.5	-2 22	8.7	9.7	Ko	1	..	38242i
34	8087	26.2	-25 35	8.6	8.7	B9	7	..	22920b	84	3035	26.5	-19 21	9.2	9.5	Ao	2	..	13324b
35	8084	26.2	-25 59	6.45	7.6	F5	10	..	22920b	85	8088	26.5	-25 29	9.0	9.0	Fo	5	..	22920b
36	8085	26.2	-26 7	10.7	11.1	A5	1	..	22920b	86	6174	26.5	-46 54	10.9	10.2	F5	1	..	38573b
37	5938	26.2	-47 40	8.4	9.0	K2	3	..	13780b	87	5312	26.5	-49 26	10.5	10.3	Ao	1	..	38573b
38	4807	26.2	-51 53	10.0	9.6	Ao	2	..	40250b	88	3448	26.5	-56 34	6.92	7.1	B8	..	3.6	28,204
39	3625	26.2	-52 17	8.5	9.6	G5	1	..	40250b	89	1101	26.5	-70 48	8.7	9.1	F5	2	..	39946b
40	3623	26.2	-52 50	8.0	8.3	B9	7	..	40250b	90	393	26.6	+76 14	5.04	5.82	G5	10	..	37465i
41	3743	26.2	-54 21	9.1	9.1	Ao	2	..	40250b	91	1379	26.6	+54 6	8.5	9.7	K5	2	..	38665i
42	3742	26.2	-54 54	8.5	9.5	Ko	1	..	40250b	92	2232	26.6	+22 32	7.45	7.73	Fo	5	..	38208i
43	3344	26.2	-57 27	9.4	9.4	Ao	2	..	38749b	93	2344	26.6	+5 27	8.3	8.7	F5	3	..	37731i
44	1365	26.2	-65 22	8.8	8.9	A3	3	0.2	40297b	94	2354	26.6	-0 19	9.5	10.0	F8	2	..	19393b
45	971	26.2	-72 9	8.6	9.7	K2	3	..	40298b	95	6777	26.6	-34 23	9.4	9.2	Ao	2	..	13048b
46	404	26.2	-82 56	9.8	9.8	A	2	..	13465b	96	6448	26.6	-36 27	9.7	9.5	A	1	..	41389b
47	1784	26.3	+47 44	9.6	10.6	Ko	2	..	38672i	97	3450	26.6	-57 2	8.2	8.8	Ko	4	..	38749b
48	2238	26.3	+24 36	7.86	8.64	G5	4	..	38208i	98	2263	26.6	-58 31	8.5	8.9	B8	7	2.3	38749b
49	2371	26.3	+18 14	9.3	10.1	G5	1	..	38647i	99	2177	26.6	-59 15	8.9	8.9	F2	2	0.2	31521b
50	2239	26.3	+11 41	8.5	8.6	A2	4	..	38228i	100	1691	26.6	-61 38	8.9	10.1	K5	1	..	21154b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

91200

10^h 26^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1612	26.6	-62 12	8.1	8.4	Fo	5	2,4	31521b	51	6570	27.0	-44 38	10.2	9.9	A3	2	..	15319b
2	1174	26.6	-69 6	8.8	10.0	K5	2	..	40297b	52	3456	27.0	-57 6	8.1	7.9	Fo	2	..	43205b
3	1135	26.7	+62 9	9.4	10.0	G	2	E	37716i	53	1105	27.0	-70 47	8.5	9.7	K5	1	..	39946b
4	2372	26.7	+18 30	7.87	8.43	Go	6	..	38647i	54	237	27.0	-85 32	9.4	10.6	K5	1	..	22238b
5	2319	26.7	+7 27	9.0	9.6	Go	3	..	13394b	55	611	27.1	+68 3	8.1	8.4	Fo	4	..	37346i
6	2945	26.7	-8 26	7.92	9.10	K5	2	..	13379b	56	2347	27.1	+5 10	7.21	8.21	Ko	4	..	37731i
7	3134	26.7	-14 23	6.90	6.90	Ao	10	..	19017b	57	2404	27.1	-1 40	9.0	9.3	Fo	4	..	19393b
8	3075	26.7	-16 34	7.9	8.9	Ko	2	..	13136b	58	3078	27.1	-11 13	9.6	10.0	F5	2	..	19017b
9	7497	26.7	-27 8	9.0	9.9	Ao	3	..	22920b	59	2898	27.1	-11 41	8.5	9.5	Ko	4	..	19017b
10	6488	26.7	-35 43	8.1	9.8	K2	3	..	41389b	60	2956	27.1	-18 37	9.2	9.2	Ao	2	..	13136b
11	6528	26.7	-38 37	8.6	8.9	Ao	5	..	41389b	61	3088	27.1	-21 41	8.5	8.7	Ko	3	..	13324b
12	6526	26.7	-38 50	8.1	8.0	Fo	5	..	41389b	62	2937	27.1	-22 49	9.3	9.5	G5	1	..	13324b
13	6446	26.7	-39 24	9.4	10.4	Ko	1	..	41389b	63	7424	27.1	-32 34	8.2	9.1	K2	2	..	13048b
14	6324	26.7	-43 52	7.0	7.5	G5	7	..	13780b	64	6331	27.1	-43 36	9.2	9.9	Ko	1	..	15319b
15	6140	26.7	-45 38	9.0	8.7	Fo	4	..	13780b	65	6329	27.1	-43 45	10.0	9.9	K2	1	..	15319b
16	5204	26.7	-50 34	9.2	9.6	Ko	2	..	40097b	66	5210	27.1	-50 38	10.0	10.1	A2	2	..	40097b
17	3752	26.7	-54 41	9.4	9.4	Ao	3	..	40097b	67	3639	27.1	-52 45	9.8	10.4	Go	1	..	40097b
18	1694	26.7	-61 59	8.0	8.9	A2	4	2,3	31521b	68	3521	27.1	-55 12	9.08	9.1	B8	3	..	40250b
19	351	26.7	-83 26	9.2	9.3	A3	2	..	13465b	69	1944	27.1	-60 51	6.36	7.2	B9	3	..	43205b
20	2260	26.8	+24 57	7.16	7.44	Fo	7	..	38208i	70	1945	27.1	-60 51	6.7	8.9	Ma	2	..	43205b
21	2401	26.8	-1 54	8.7	9.8	K2	2	..	19393b	71	1615	27.1	-63 3	8.5	8.9	F5	2	..	38834b
22	3094	26.8	-9 20	8.8	9.9	K2	1	..	13379b	72	1291	27.1	-66 29	6.40	6.9	B5	..	3,10	56,128
23	5921	26.8	-41 43	8.1	8.1	A2	7	..	15319b	73	1368	27.1	-68 3	8.0	8.0	B9	7	..	40297b
24	6293	26.8	-42 12	9.0	8.6	B9	3	..	15319b	74	665	27.1	-75 47	9.1	9.4	F2	5	..	21453b
25	6327	26.8	-43 27	9.6	9.0	B9	5	..	15319b	75	786	27.2	+65 30	8.7	9.3	Go	3	..	37346i
26	4811	26.8	-51 40	9.6	9.8	Go	3	..	40097b	76	2082	27.2	+35 53	9.3	10.1	G5	3	..	37582i
27	3753	26.8	-54 56	8.3	9.1	K2	2	..	40250b	77	1901	27.2	+26 48	8.4	8.8	F5	2	..	38208i
28	3518	26.8	-55 26	8.3	9.4	K5	2	..	40250b	78	3079	27.2	-11 3	10.0	10.8	G5	1	..	19017b
29	2183	26.8	-59 51	8.6	9.0	F5	3	..	38749b	79	3038	27.2	-19 50	9.1	9.0	Ko	2	..	13324b
30	2045	26.9	+31 56	8.7	9.1	F5	4	..	37582i	80	7503	27.2	-27 44	5.98	7.1	F8	..	..	56,128
31	2239	26.9	+23 50	8.2	8.7	F8	4	..	38208i	81	7429	27.2	-32 37	9.7	9.8	G5	1	..	13048b
32	2255	26.9	+14 39	5.74	7.09	Ma	8	..	38228i	82	6571	27.2	-44 52	8.6	9.0	F5	4	0,4	13780b
33	2165	26.9	+9 56	8.12	9.12	Ko	1	..	38228i	83	5702	27.2	-48 56	10.0	10.1	F2	2	..	38573b
34	2345	26.9	+5 46	8.9	9.3	F5	4	..	13394b	84	4815	27.2	-51 22	11.5	10.6	F8	2	..	40097b
35	2346	26.9	+5 43	9.0	9.8	G5	2	..	13394b	85	1106	27.2	-70 46	9.0	9.1	A2	2	..	39946b
36	3085	26.9	-21 19	9.3	9.0	A5	3	..	13324b	86	2363	27.3	+39 44	7.32	8.39	K2	4	..	38640i
37	6447	26.9	-40 2	10.5	9.8	A2	1	..	41389b	87	2153	27.3	+35 2	9.7	10.5	G5	2	..	37582i
38	6079	26.9	-40 10	9.74	10.6	K	1	..	41389b	88	2272	27.3	+13 15	9.3	9.7	F5	2	..	38228i
39	5923	26.9	-41 44	7.5	7.7	B9	9	..	15319b	89	3055	27.3	-7 41	8.3	8.7	F5	4	..	13379b
40	6178	26.9	-46 33	9.6	9.6	F5	3	..	38573b	90	9356	27.3	-24 2	8.6	9.5	K2	3	..	22920b
41	3902	26.9	-53 30	8.2	7.9	B9	7	..	40250b	91	6495	27.3	-35 59	9.5	9.9	Ao	2	..	41389b
42	3899	26.9	-53 58	8.2	9.1	K5	3	..	40250b	92	6082	27.3	-40 18	7.3	8.9	K2	3	..	41389b
43	3900	26.9	-54 0	8.6	9.4	Ko	2	..	40250b	93	3464	27.3	-56 55	8.4	10.0	K5	2	..	38749b
44	1965	27.0	+49 41	8.82	8.90	A3	2	..	38672i	94	3366	27.3	-57 32	8.2	7.9	Ao	3	..	43205b
45	2271	27.0	+13 26	7.9	8.2	F2	5	..	38228i	95	2268	27.3	-58 12	8.6	8.0	Ao	4	2,7	31521b
46	2403	27.0	-2 8	8.17	9.17	Ko	2	..	38242i	96	2269	27.3	-58 45	9.2	9.2	Ao	2	0,3-	31521b
47	3095	27.0	-9 50	8.9	10.1	K5	2	..	13379b	97	1273	27.3	-69 43	8.5	8.6	A2	4	..	40297b
48	3076	27.0	-10 54	7.42	7.76	F2	10	..	19017b	98	1031	27.3	-72 7	8.0	9.1	K2	6	..	40298b
49	6783	27.0	-34 37	7.22	8.6	Ko	7	..	13048b	99	911	27.4	+62 55	8.7	9.7	Ko	3	..	37716i
50	6449	27.0	-39 46	8.3	8.9	Ko	3	..	41389b	100	2355	27.4	-0 39	8.7	9.7	Ko	4	..	19393b

THE HENRY DRAPER CATALOGUE.

91300

10^h 27^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7508	m. 27.4	° -27 57	9.5	10.5	Go	2	..	22920b	51	3181	m. 27.7	° -6 22	9.6	10.4	G5	1	..	13379b
2	8412	27.4	-30 1	9.85	9.7	F8	2	..	22920b	52	2939	27.7	-23 6	7.42	7.7	Ao	7	..	13324b
3	6576	27.4	-44 57	9.8	9.3	Ao	3	R	15319b	53	6541	27.7	-38 35	10.5	9.9	Ko	1	..	41389b
4	6153	27.4	-45 29	8.9	8.7	A5	5	..	13780b	54	6584	27.7	-44 14	9.4	9.9	F2	2	..	15319b
5	5706	27.4	-49 3	9.8	9.8	F2	1	..	38573b	55	6583	27.7	-44 33	6.19	6.14	B8	..	R	56,128
6	5214	27.4	-51 6	8.3	9.2	Ko	3	..	38573b	56	6582	27.7	-44 34	6.54	6.49	B8	..	R	56,128
7	1948	27.4	-61 6	7.7	8.0	Ao	1	..	43205b	57	3647	27.7	-52 29	10.1	10.1	Ao	2	..	40097b
8	509	27.4	-79 15	9.3	10.3	Ko	2	..	21453b	58	3764	27.7	-54 43	9.3	9.4	A2	2	..	40250b
9	576	27.5	+69 22	8.3	8.4	A5	4	..	38663i	59	2272	27.7	-58 47	9.5	9.5	B9	3	4,2	38749b
10	1275	27.5	+56 57	9.4	10.2	G5	1	..	37725i	60	2273	27.7	-59 1	9.5	9.5	B9	4	4,3	38749b
11	1381	27.5	+54 0	6.44	6.44	Ao	9	..	38665i	61	1697	27.7	-61 29	9.8	9.8	Ao	3	..	21154b
12	2101	27.5	+40 57	4.84	4.98	A5	..	0,10	56,87	62	1183	27.7	-68 28	9.5	9.5	Ao	2	..	40297b
13	2152	27.5	+38 11	9.2	9.8	Go	3	..	37582i	63	275	27.7	-84 52	8.7	9.9	K5	2	..	22238b
14	2498	27.5	+20 31	9.6	10.4	G5	1	..	38647i	64	2095	27.8	+37 7	9.6	10.2	Go	3	..	37582i
15	2218	27.5	+15 8	9.3	10.3	Ko	1	..	38666i	65	2154	27.8	+35 31	5.58	5.64	A2	..	2,10	56,87
16	2166	27.5	+9 49	3.85	3.61	Bop	..	R	1842c	66	2263	27.8	+25 38	7.74	8.74	Ko	4	..	38208i
17	2943	27.5	-3 40	8.1	9.3	K5	5	..	19393b	67	2239	27.8	+23 21	9.2	10.0	G5	1	..	38208i
18	3080	27.5	-5 34	6.90	7.00	Ko	7	..	13379b	68	3170	27.8	-2 17	10.2	10.8	G	1	..	19393b
19	3143	27.5	-13 52	8.6	9.7	K2	3	..	19017b	69	3078	27.8	-16 26	7.64	8.42	G5	6	..	13136b
20	8320	27.5	-31 20	8.2	8.5	Go	3	..	13048b	70	4825	27.8	-51 43	7.6	7.6	B8	8	..	40250b
21	8319	27.5	-31 40	10.6	10.6	Ko	1	R	13048b	71	3913	27.8	-53 34	9.1	9.1	Ao	4	2,3	40097b
22	6335	27.5	-43 59	7.4	7.5	B3	8	..	13780b	72	3532	27.8	-55 35	9.1	10.0	K5	1	..	40250b
23	3909	27.5	-53 13	5.08	5.8	Go	..	0,10	56,128	73	3469	27.8	-56 48	8.7	8.8	Ao	5	..	38749b
24	1275	27.5	-69 21	8.6	10.0	Ma	1	..	40297b	74	1620	27.8	-62 37	9.1	10.1	Ko	1	..	38834b
25	1108	27.5	-70 23	7.08	8.8	Mb	6	..	40297b	75	1034	27.8	-71 29	4.94	5.00	A2	..	R	28,204
26	555	27.5	-78 18	9.2	9.7	F8	3	..	21453b	76	2257	27.9	+14 22	9.3	10.5	K5	2	..	38647i
27	308	27.6	+82 6	7.66	8.66	Ko	4	..	37465i	77	3097	27.9	-9 48	9.6	10.1	F8	1	..	13379b
28	577	27.6	+69 13	7.77	8.84	K2	5	..	38654i	78	3192	27.9	-12 37	9.2	9.7	F8	2	..	19017b
29	1638	27.6	+46 26	7.9	9.0	K2	2	..	38291i	79	2960	27.9	-18 41	8.3	8.8	F8	4	..	13136b
30	2029	27.6	+43 31	9.0	9.8	G5	1	..	38640i	80	8251	27.9	-28 32	8.0	9.0	F8	6	..	22920b
31	2154	27.6	+31 17	8.3	8.9	Go	4	..	37582i	81	8252	27.9	-28 59	8.2	10.2	K2	4	..	22920b
32	2356	27.6	-0 21	8.88	9.38	F8	1	..	38242i	82	6094	27.9	-40 16	8.84	10.4	K5	1	..	15319b
33	2959	27.6	-18 32	8.5	8.6	A2	3	..	13136b	83	5955	27.9	-47 23	9.2	9.9	Ko	2	..	38573b
34	9362	27.6	-24 1	8.3	8.9	Ko	6	..	22920b	84	5956	27.9	-47 25	9.6	10.2	K5	1	..	38573b
35	7985	27.6	-26 30	8.6	9.6	F5	5	..	22920b	85	556	27.9	-78 49	9.6	9.7	A5	4	..	21453b
36	8246	27.6	-28 46	9.5	9.9	Ao	4	..	22920b	86	2374	28.0	+18 5	8.9	9.7	G5	1	..	38647i
37	6539	27.6	-38 41	9.7	9.9	G5	1	..	41389b	87	2945	28.0	-3 18	9.6	10.2	Go	2	..	19393b
38	5934	27.6	-41 15	9.5	9.1	A5	2	..	15319b	88	6543	28.0	-38 14	7.50	7.8	Ko	5	..	41389b
39	6581	27.6	-44 56	10.2	9.4	A2	3	1,2	15319b	89	5713	28.0	-48 56	8.2	8.9	Fo	4	..	13780b
40	2191	27.6	-59 21	8.9	9.5	Ao	5	0,3	21154b	90	1954	28.0	-60 12	9.7	9.8	A5	2	..	21154b
41	1949	27.6	-61 4	7.9	8.0	B9	1	..	43205b	91	1621	28.0	-62 28	8.5	8.6	A5	4	0,4	31521b
42	1383	27.6	-65 53	9.2	9.2	Ao	1	..	40297b	92	1462	28.0	-63 53	9.2	9.2	Ao	1	..	38834b
43	1295	27.6	-66 18	8.6	8.9	Fo	4	..	40297b	93	612	28.1	+68 5	9.4	9.9	F8	1	..	37346i
44	1111	27.6	-71 3	8.8	9.4	Go	3	..	39946b	94	1464	28.1	+56 41	7.9	8.3	F5	5	0,5	38665i
45	1463	27.7	+56 28	9.4	9.7	Fo	1	..	37725i	95	2375	28.1	+18 12	8.9	9.9	Ko	1	..	38647i
46	1966	27.7	+49 41	7.57	8.07	F8	6	0,6	38672i	96	2219	28.1	+15 25	8.7	9.1	F5	3	..	38228i
47	1899	27.7	+28 18	8.4	9.2	G5	2	..	38208i	97	3145	28.1	-13 30	9.1	9.7	Go	2	..	19017b
48	2500	27.7	+20 5	8.8	9.2	F5	6	..	38647i	98	3091	28.1	-22 1	6.91	7.0	B9	9	..	13324b
49	2349	27.7	+5 20	10.0	10.6	Go	1	..	13394b	99	9137	28.1	-24 42	9.3	10.2	G5	1	..	22920b
50										100	8330	28.1	-32 3	7.76	8.3	Ko	4	..	13048b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

91400

10^h 28^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6544	28.1	-38 48	9.7	8.8	F5	3	..	41389b	51	1624	28.4	-62 59	8.4	8.9	F8	2	..	38834b
2	6464	28.1	-40 8	9.34	9.9	K2	1	..	15319b	52	1465	28.4	-63 26	7.6	7.4	Bo	6	..	31521b
3	3649	28.1	-52 25	9.6	10.1	F8	1	..	40097b	53	1491	28.5	+52 40	8.7	9.5	G5	1	..	38665i
4	3772	28.1	-54 15	9.4	9.7	Fo	2	..	40097b	54	2241	28.5	+23 19	8.9	9.9	K	1	..	38208i
5	3773	28.1	-54 28	9.0	8.6	B9	5	..	40250b	55	2210	28.5	+20 49	7.31	7.73	F5	5	..	38208i
6	1699	28.1	-61 44	9.3	10.3	Ko	1	..	21154b	56	2370	28.5	+ 9 6	8.7	9.1	F5	2	..	38228i
7	1375	28.1	-67 12	7.8	7.8	B9	9	..	40297b	57	3084	28.5	-10 24	9.3	9.4	A5	4	..	19017b
8	1998	28.2	+43 59	9.1	9.7	Go	1	..	38640i	58	3092	28.5	-21 17	8.7	9.2	F5	2	..	13324b
9	2155	28.2	+35 17	10.0	10.4	F5	1	..	37582i	59	9144	28.5	-24 59	9.70	10.5	K5	1	..	22920b
10	2324	28.2	+ 7 36	8.7	9.0	F2	7	..	13394b	60	6476	28.5	-39 25	8.3	7.5	B9	6	..	41389b
11	2323	28.2	+ 6 53	9.0	9.6	Go	3	..	13394b	61	6312	28.5	-43 7	7.8	8.5	Ko	5	..	15319b
12	2898	28.2	- 4 51	7.15	8.15	Ko	8	..	19393b	62	6356	28.5	-44 4	9.1	9.0	A2	3	..	13780b
13	2904	28.2	-11 17	8.9	9.7	G5	5	..	19017b	63	3543	28.5	-55 36	8.5	9.4	K5	2	..	40250b
14	3138	28.2	-14 15	8.5	9.5	Ko	5	..	19017b	64	2197	28.5	-59 20	8.9	9.8	G5	3	5,2	21154b
15	9138	28.2	-24 38	9.0	9.9	G5	2	..	22920b	65	1704	28.5	-61 11	3.58	3.46	B5p	..	R	28,204
16	8104	28.2	-26 6	7.68	9.0	K5	6	..	22920b	66	1392	28.5	-65 57	8.6	8.6	Ao	3	..	40297b
17	7439	28.2	-32 52	8.1	8.8	K2	3	..	13048b	67	1187	28.5	-68 39	9.3	9.4	A3	2	..	40297b
18	6504	28.2	-35 57	7.9	8.9	Ko	4	..	41389b	68	788	28.6	+65 22	8.6	9.6	Ko	1	..	37346i
19	6506	28.2	-35 59	9.2	9.2	A	2	..	41389b	69	2325	28.6	+ 7 14	9.7	10.3	Go	1	..	13394b
20	3385	28.2	-57 34	8.8	10.0	K5	1	..	38749b	70	2350	28.6	+ 4 42	9.16	10.23	K2	1	..	13394b
21	3387	28.2	-57 43	9.3	9.1	B	3	..	38749b	71	2947	28.6	- 3 46	9.6	10.8	K5	1	..	19393b
22	2276	28.2	-59 3	10.3	10.3	Ao	3	0.3	21154b	72	3095	28.6	-22 4	8.7	9.3	K5	1	..	13324b
23	1184	28.2	-68 23	7.4	7.4	Ao	9	..	40297b	73	7997	28.6	-26 17	9.5	9.3	Go	3	..	22920b
24	1114	28.2	-70 46	8.7	9.7	Ko	1	..	39946b	74	6358	28.6	-43 11	10.0	9.9	Ao	2	..	15319b
25	354	28.3	+78 36	7.9	8.3	F5	4	3.4	37714i	75	6360	28.6	-43 25	10.5	9.9	Ao	2	..	15319b
26	1968	28.3	+49 36	7.12	8.30	K5	4	3.4	38672i	76	6602	28.6	-44 48	10.0	9.4	Ao	3	..	15319b
27	2244	28.3	+23 52	7.10	7.16	A2	6	..	38208i	77	3397	28.6	-58 2	8.3	6.8	B8	3	..	43205b
28	2208	28.3	+21 17	8.9	9.9	Ko	2	..	38647i	78	2279	28.6	-58 14	8.9	10.1	K5	1	..	38749b
29	2260	28.3	+14 38	9.7	10.7	Ko	1	..	38666i	79	980	28.6	-72 51	8.7	9.7	Ko	2	..	40298b
30	2406	28.3	- 2 0	10.0	10.5	F8	2	..	19393b	80	1277	28.7	+57 36	5.16	5.44	Fo	9	..	38665i
31	2407	28.3	- 2 7	10.3	10.4	A2	3	..	19393b	81	2380	28.7	+ 8 0	10.7	11.8	K2	1	..	13394b
32	2946	28.3	- 8 51	8.5	9.0	F8	2	..	13379b	82	2387	28.7	+ 3 30	8.5	9.0	F8	2	..	13378b
33	3196	28.3	-12 33	10.0	11.0	Ko	2	..	19017b	83	2408	28.7	- 1 57	8.7	9.9	K5	2	..	19393b
34	3194	28.3	-12 54	6.85	7.85	Ko	..	2.8	56.87	84	3089	28.7	- 5 52	9.3	10.3	Ko	1	..	13379b
35	6509	28.3	-36 8	8.8	9.8	K2	3	..	41389b	85	3044	28.7	-19 40	8.7	8.7	Fo	5	..	13324b
36	6463	28.3	-36 34	8.8	9.3	Ao	3	..	41389b	86	8000	28.7	-26 17	8.6	8.7	Ao	8	..	22920b
37	6347	28.3	-44 6	6.05	7.3	Ko	9	..	13780b	87	6551	28.7	-38 16	8.5	9.3	Ko	2	..	41389b
38	6169	28.3	-45 22	10.2	9.9	A2	2	..	15319b	88	6206	28.7	-46 56	8.8	9.6	Ko	3	..	38573b
39	5339	28.3	-50 8	9.29	9.8	K2	2	..	38573b	89	5348	28.7	-49 38	8.2	9.0	G5	4	..	13780b
40	3389	28.3	-57 53	9.0	10.3	K5	1	..	38749b	90	4835	28.7	-51 31	8.9	9.0	F2	4	..	40250b
41	1185	28.3	-68 28	7.6	7.6	B9	7	..	40297b	91	3661	28.7	-52 38	8.3	8.9	Ko	5	..	40250b
42	3083	28.4	-10 17	8.86	8.94	A3p	5	R	19017b	92	3403	28.7	-57 41	8.7	9.7	K5	2	..	38749b
43	2906	28.4	-11 57	8.7	9.9	K5	1	..	19017b	93	2282	28.7	-58 43	9.8	9.8	Ao	2	..	38749b
44	9143	28.4	-25 5	9.70	9.9	Go	2	..	22920b	94	2280	28.7	-59 6	8.5	9.2	Ko	2	0.3	31521b
45	6352	28.4	-43 39	9.6	10.2	K5	1	..	15319b	95	1039	28.7	-71 21	9.9	10.0	A3	2	..	39946b
46	6600	28.4	-45 2	9.38	9.3	A2	3	..	13780b	96	981	28.7	-72 43	4.90	7.7	K5	..	5,10	28,204
47	5966	28.4	-47 39	9.6	10.2	Go	2	..	38573b	97	579	28.8	+69 26	7.89	8.89	Ko	4	..	37346i
48	5967	28.4	-47 46	10.5	10.4	Go	2	..	38573b	98	2274	28.8	+12 54	7.7	7.8	A3	4	..	38228i
49	3655	28.4	-52 12	8.5	9.0	Ao	3	..	40250b	99	2326	28.8	+ 7 9	9.3	10.1	G5	4	..	13394b
50	1956	28.4	-60 14	9.6	9.6	B8	2	..	21154b	100	2388	28.8	+ 3 10	8.1	9.3	K5	3	..	37731i

THE HENRY DRAPER CATALOGUE.

91500

10^h 28^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2668	28.8	+ 0 36	9.5	10.6	K2	1	..	19393b	51	8002	29.2	- 26 50	7.66	8.7	K2	6	..	22920b
2	8108	28.8	- 25 57	9.5	9.9	Fo	3	..	22920b	52	8436	29.2	- 29 49	9.0	9.5	F8	3	..	22920b
3	6479	28.8	- 39 16	9.5	8.1	Ao	5	..	41389b	53	6560	29.2	- 38 28	10.1	10.2	Ao	1	..	41389b
4	6205	28.8	- 46 30	5.11	7.1	Ko	..	R	56,128	54	6213	29.2	- 46 35	9.8	9.6	A2	2	..	38573b
5	3783	28.8	- 54 13	9.1	9.1	A2	3	..	40250b	55	5975	29.2	- 47 21	9.0	9.0	A2	5	2,3	38573b
6	3406	28.8	- 58 7	9.4	9.4	Ao	4	..	38749b	56	5355	29.2	- 49 25	9.4	9.3	A3	3	..	13780b
7	2198	28.8	- 59 21	8.1	8.1	Fo	7	0,8	38749b	57	3671	29.2	- 52 46	8.5	9.0	Ao	4	..	40250b
8	1961	28.8	- 60 14	9.8	10.1	Fo	1	..	21154b	58	3934	29.2	- 53 28	9.1	8.8	A2	5	..	40250b
9	462	28.8	- 80 33	7.53	8.8	Ko	3	..	13465b	59	1196	29.2	- 68 17	8.6	8.6	Ao	7	..	40297b
10	1419	28.9	+ 52 55	9.4	10.0	Go	1	..	38665i	60	1195	29.2	- 68 59	9.5	9.5	Ao	1	..	40297b
11	2156	28.9	+ 35 12	9.6	10.1	F8	2	..	37582i	61	1288	29.2	- 69 34	8.1	8.5	F5	4	..	40297b
12	2051	28.9	+ 32 12	8.7	9.7	Ko	3	..	37582i	62	1384	29.3	+ 54 17	8.3	9.4	K2	3	..	38665i
13	2669	28.9	+ 0 42	9.44	10.51	K2	2	..	19393b	63	2032	29.3	+ 42 48	9.0	9.4	F5	1	..	38640i
14	2670	28.9	+ 0 29	9.7	10.2	F8	3	..	19393b	64	2131	29.3	+ 42 25	7.03	8.21	K5	6	..	38640i
15	2948	28.9	- 3 26	9.6	10.1	F8	3	..	19393b	65	3173	29.3	- 3 11	9.1	10.2	K2	3	..	19393b
16	2901	28.9	- 4 22	9.2	9.6	F5	3	..	19393b	66	3101	29.3	- 9 23	7.68	8.10	F5	6	..	13379b
17	9152	28.9	- 25 5	10.00	10.5	Ko	1	..	22920b	67	2911	29.3	- 11 21	8.8	10.0	K5	1	..	19017b
18	7524	28.9	- 27 19	8.6	10.2	G5	2	..	22920b	68	3935	29.3	- 53 42	10.0	10.0	Ao	2	..	40097b
19	6521	28.9	- 35 33	7.56	8.4	A3	6	1,7	41389b	69	3555	29.3	- 55 23	9.1	9.1	Ao	4	..	40250b
20	6557	28.9	- 38 25	9.5	9.7	Ao	1	..	41389b	70	3498	29.3	- 57 3	8.8	9.4	F8	2	..	38749b
21	6366	28.9	- 44 1	9.4	9.0	A2	4	..	13780b	71	3425	29.3	- 57 28	9.3	9.1	B	2	..	38749b
22	6179	28.9	- 45 48	8.8	9.0	F8	2	..	13780b	72	3423	29.3	- 57 40	8.6	7.9	B2	6	..	38749b
23	3549	28.9	- 55 14	9.64	9.4	Ao	3	..	40250b	73	2208	29.3	- 59 36	7.2	7.4	A3	4	0, R	43205b
24	2284	28.9	- 58 24	9.8	10.9	K2	1	..	38749b	74	632	29.3	- 76 25	10.1	10.1	Ao	3	..	21453b
25	1962	28.9	- 60 48	9.0	9.0	B9	2	..	31521b	75	913	29.4	+ 62 47	10.1	10.7	G	2	..	37716i
26	1393	28.9	- 66 4	8.4	8.4	Ao	4	..	40297b	76	2105	29.4	+ 41 23	7.83	8.83	Ko	2	..	38640i
27	2236	29.0	+ 22 7	7.32	8.32	Ko	4	..	38208i	77	2084	29.4	+ 36 27	9.3	9.9	Go	3	..	37582i
28	3177	29.0	- 17 19	8.3	9.1	G5	4	..	13136b	78	2085	29.4	+ 36 16	9.2	9.8	Go	3	..	37582i
29	5973	29.0	- 47 37	9.4	9.7	Go	3	..	38573b	79	2159	29.4	+ 35 39	9.6	10.4	G5	2	..	37582i
30	5230	29.0	- 51 1	8.2	9.3	K2	2	..	13780b	80	2333	29.4	+ 2 18	7.7	8.1	F5	5	..	37731i
31	3786	29.0	- 54 38	8.9	10.0	Ma	2	..	40097b	81	2956	29.4	- 8 36	8.9	9.0	A3	2	..	13379b
32	3494	29.0	- 57 0	8.9	10.0	K2	2	..	38749b	82	3086	29.4	- 10 45	9.3	9.6	Fo	5	..	19017b
33	2285	29.0	- 58 9	6.19	6.4	A2p	..	0,5 R	28,204	83	3157	29.4	- 13 20	9.6	10.1	F8	1	..	19017b
34	2221	29.1	+ 15 22	10.0	11.1	K2	1	..	38647i	84	3156	29.4	- 13 36	9.1	9.6	F8	3	..	19017b
35	2351	29.1	+ 4 38	8.95	10.02	K2	3	..	13394b	85	8270	29.4	- 29 2	9.6	11.1	Ko	2	..	22920b
36	7527	29.1	- 27 57	8.4	9.9	F8	3	..	22920b	86	6816	29.4	- 34 28	8.8	9.8	Ko	1	..	13048b
37	8267	29.1	- 29 6	10.0	11.1	Ko	1	..	22920b	87	6480	29.4	- 36 39	9.5	10.4	Ko	1	..	41389b
38	6488	29.1	- 39 44	6.74	7.5	Ko	..	5,7	56,128	88	5958	29.4	- 41 20	9.5	9.4	A3	3	..	15319b
39	3667	29.1	- 52 27	8.7	9.6	K2	1	..	40250b	89	6220	29.4	- 46 10	9.4	9.1	Ao	3	..	13780b
40	1118	29.1	- 71 2	8.6	9.4	G5	2	..	39946b	90	6219	29.4	- 46 28	7.5	7.8	B9	9	..	13780b
41	612	29.1	- 77 36	10.3	10.3	A	1	..	21453b	91	5979	29.4	- 48 2	10.2	9.9	A2	2	..	38573b
42	240	29.1	- 86 3	7.75	8.3	Fo	7	..	13459b	92	5735	29.4	- 48 50	10.5	9.8	Ao	2	..	38573b
43	795	29.2	+ 64 7	8.3	8.6	F2	4	..	37346i	93	3797	29.4	- 54 52	6.65	7.7	Ao	7	R	40250b
44	2130	29.2	+ 42 23	9.1	9.7	Go	2	..	38640i	94	3794	29.4	- 55 7	9.04	9.5	Ko	2	..	40250b
45	1902	29.2	+ 28 30	6.85	7.85	Ko	6	..	38208i	95	3424	29.4	- 57 59	var.	var.	F5	7	R	38749b
46	2101	29.2	+ 26 41	7.74	8.16	F5	5	..	38208i	96	2210	29.4	- 59 16	8.4	8.3	B9	5	0,7	31521b
47	2353	29.2	+ 4 10	9.0	10.1	K2	3	..	13394b	97	1968	29.4	- 60 20	9.7	9.5	B3	1	..	21154b
48	2954	29.2	- 8 46	8.9	10.1	K5	1	..	13379b	98	1967	29.4	- 61 1	8.6	8.9	B3	3	..	31521b
49	3085	29.2	- 10 46	8.3	9.4	K2	3	..	19017b	99	1707	29.4	- 61 24	8.2	9.2	B9	3	..	21154b
50	2946	29.2	- 23 14	5.32	7.7	K2	..	3,9	56,128	100	1402	29.4	- 65 40	8.1	9.5	Mb	1	..	40297b

91600

10^h 29^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1045	29.4	-71 36	7.9	7.9	Ao	7	..	40298b	51	2214	29.8	-59 37	9.1	8.9	Bo	4	R	21154b
2	516	29.4	-80 0	8.5	9.5	Ko	1	..	21530b	52	1976	29.8	-60 38	8.8	9.8	K5	1	..	21154b
3	1642	29.5	+46 10	7.23	8.23	Ko	5	5.4	38640i	53	542	29.9	+71 11	8.9	9.4	F8	2	..	38663i
4	2086	29.5	+35 52	10.0	11.0	K	1	..	37582i	54	789	29.9	+64 52	9.00	9.78	G5	1	..	37346i
5	3093	29.5	-5 31	9.6	10.7	K2	1	..	13379b	55	2053	29.9	+32 19	8.0	8.4	F5	5	..	37582i
6	9390	29.5	-23 47	8.1	8.1	F2	5	..	13324b	56	2240	29.9	+21 54	7.65	7.99	F2	4	..	38208i
7	8007	29.5	-26 34	9.8	10.2	F8	2	..	22920b	57	2334	29.9	+2 43	6.73	7.80	K2	7	..	37731i
8	3936	29.5	-53 41	10.2	10.2	Ao	1	..	40097b	58	3160	29.9	-13 47	9.3	9.9	Go	2	..	19017b
9	2212	29.5	-59 15	9.0	8.9	A2	5	..	21154b	59	3080	29.9	-15 25	9.3	9.9	F8	1	..	19017b
10	1708	29.5	-61 28	9.8	9.8	B9	2	..	21154b	60	3100	29.9	-21 41	7.64	8.4	Ko	5	..	13324b
11	2261	29.6	+14 7	8.9	9.7	G5	2	..	38647i	61	8118	29.9	-26 8	11.0	10.8	G	1	R	22920b
12	2330	29.6	+7 28	5.17	6.17	Ko	9	..	38228i	62	8012	29.9	-26 19	10.3	10.5	F5	1	..	22920b
13	2949	29.6	-3 36	9.6	10.8	K5	1	..	19393b	63	5987	29.9	-47 33	9.8	9.6	B9	2	..	38573b
14	3089	29.6	-10 36	8.5	9.5	Ko	5	..	19017b	64	3686	29.9	-52 42	9.0	9.5	B8	3	..	40250b
15	6564	29.6	-38 54	9.5	9.0	A5	3	..	41389b	65	558	29.9	-78 27	9.7	10.3	Go	2	..	21453b
16	6121	29.6	-40 10	9.59	9.3	Ao	2	..	41389b	66	2503	30.0	+20 1	9.7	10.7	Ko	1	..	38647i
17	3677	29.6	-53 1	9.6	9.6	Ao	2	..	40250b	67	2354	30.0	+5 20	8.0	9.0	Ko	3	..	37731i
18	3505	29.6	-56 26	9.7	9.7	A	1	..	40250b	68	2913	30.0	-11 16	9.3	10.4	K2	1	..	19017b
19	3431	29.6	-57 41	6.25	7.1	B8	..	0.4	28,204	69	3161	30.0	-13 16	9.6	10.6	Ko	1	..	19017b
20	355	29.6	-83 50	var.	var.	Mb	4	R	22238b	70	3214	30.0	-20 20	9.08	9.8	K2	1	..	13324b
21	2133	29.7	+42 25	9.6	9.7	A3	2	..	38640i	71	8282	30.0	-28 35	10.0	11.1	G	1	..	22920b
22	2382	29.7	+8 34	8.5	9.5	Ko	1	..	38228i	72	8281	30.0	-29 6	9.3	11.1	K5	1	..	22920b
23	2353	29.7	+5 4	9.3	10.4	K2	3	..	13394b	73	6489	30.0	-36 51	8.5	8.6	Go	4	..	41389b
24	3158	29.7	-14 4	9.3	9.9	Go	1	..	19017b	74	6195	30.0	-45 14	7.9	8.7	F5	4	..	13780b
25	8444	29.7	-29 53	9.0	9.1	Fo	4	..	22920b	75	6229	30.0	-46 39	10.2	9.6	F2	3	..	38573b
26	6635	29.7	-37 21	9.4	9.5	Ao	2	..	41389b	76	5990	30.0	-47 40	9.0	10.2	Ko	2	..	38573b
27	4845	29.7	-51 48	9.8	9.5	F2	2	..	40250b	77	4850	30.0	-51 40	9.6	9.8	K2	1	..	40250b
28	3561	29.7	-55 15	9.48	9.1	A3	4	..	40250b	78	3571	30.0	-55 48	8.6	9.7	Ko	1	..	40250b
29	2295	29.7	-58 54	7.3	8.3	G5p	7	7.2 R	21154b	79	1713	30.0	-61 25	9.8	9.8	B8	3	..	21154b
30	1975	29.7	-60 24	10.0	10.0	Ao	1	..	21154b	80	1049	30.0	-71 55	8.6	9.1	F8	5	..	40298b
31	1124	29.7	-70 53	9.2	10.3	K2	1	..	39946b	81	669	30.0	-76 0	9.4	9.9	F8	2	..	21453b
32	1046	29.7	-71 14	8.8	9.8	Ko	1	..	39946b	82	614	30.0	-77 40	8.1	8.9	G5	7	..	21453b
33	517	29.7	-79 16	8.8	9.2	F5	7	..	21453b	83	1496	30.1	+52 38	7.40	7.46	A2	5	0.5	38665i
34	1791	29.8	+47 32	9.1	9.7	G	2	..	38672i	84	2366	30.1	+39 2	7.8	8.6	G5	4	E	37582i
35	1643	29.8	+45 47	8.6	9.8	K5	1	..	38640i	85	2062	30.1	+29 37	8.71	9.27	Go	2	..	38711i
36	2374	29.8	+9 10	5.70	5.70	Ao	8	..	38228i	86	2318	30.1	+6 20	9.0	9.5	F8	4	..	13394b
37	2671	29.8	+0 10	var.	var.	Ma	1	R	13378b	87	2355	30.1	+5 36	9.0	9.5	F8	2	..	13394b
38	2950	29.8	-3 23	6.62	7.12	F8	7	..	38242i	88	2673	30.1	+0 9	8.9	9.5	Go	2	..	13378b
39	3096	29.8	-6 2	9.8	10.6	G5	1	..	13379b	89	9165	30.1	-24 35	8.3	8.7	Fo	6	..	22920b
40	3094	29.8	-6 7	9.6	10.2	Go	2	..	13379b	90	7081	30.1	-33 16	8.2	9.4	Ko	2	..	13048b
41	2912	29.8	-11 42	9.3	9.3	Ao	4	..	19017b	91	6639	30.1	-37 37	7.9	8.9	Ko	5	..	41389b
42	3159	29.8	-14 11	9.1	10.3	K5	1	..	19017b	92	6128	30.1	-40 50	8.8	9.1	G5	3	..	41389b
43	3212	29.8	-20 28	10.0	9.3	A	1	..	13324b	93	6200	30.1	-45 59	8.4	8.8	Ko	2	..	13780b
44	8116	29.8	-25 49	8.2	8.7	Ao	7	..	22920b	94	5362	30.1	-49 40	9.8	9.6	Ao	3	..	38573b
45	6485	29.8	-36 53	7.04	7.0	B9	8	..	41389b	95	4853	30.1	-51 59	8.6	9.2	A3	4	..	40250b
46	6224	29.8	-47 1	8.5	8.2	Ao	5	..	13780b	96	3946	30.1	-53 50	9.6	9.7	A3	2	..	40097b
47	5360	29.8	-49 44	8.3	9.2	Ko	4	..	13780b	97	1978	30.1	-60 44	9.2	9.3	A3	2	..	21154b
48	5234	29.8	-50 35	9.6	9.8	K	2	R	13780b	98	1339	30.1	-64 51	8.08	8.0	B8	5	..	38834b
49	5235	29.8	-50 35	8.6	9.8	K	2	R	13780b	99	1387	30.1	-67 11	9.1	9.2	A2	3	..	40297b
50	3683	29.8	-52 46	8.9	10.1	K	1	R	40250b	100	1050	30.1	-71 56	8.9	9.7	G5	1	..	40298b

THE HENRY DRAPER CATALOGUE.

91700

10^h 30^m 2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1877	30.2	+48 17	7.9	8.9	Ko	2	E	38308i	51	1844	30.6	+45 1	8.1	8.6	F8	4	..	38640i
2	2099	30.2	+37 27	8.3	9.1	G5	4	..	37582i	52	2100	30.6	+36 51	6.27	6.61	F2	10	..	37582i
3	2055	30.2	+32 17	9.6	10.0	F5	2	..	37582i	53	1907	30.6	+27 48	9.2	9.3	A2	2	..	38208i
4	2161	30.2	+31 3	9.6	10.4	G5	1	..	38711i	54	2392	30.6	+ 3 4	8.9	9.7	G5	1	..	37731i
5	3146	30.2	-14 23	9.2	10.4	K5	1	..	19017b	55	8454	30.6	-29 50	8.2	9.5	Ko	1	..	13048b
6	2952	30.2	-22 40	6.16	7.3	F5	10	..	13324b	56	6572	30.6	-39 3	9.9	8.4	Ao	3	..	41389b
7	8546	30.2	-30 50	7.22	7.5	F2	6	..	13048b	57	6132	30.6	-40 32	9.4	8.5	Fo	5	..	41389b
8	5992	30.2	-47 53	9.4	10.5	Ro	2	..	38573b	58	6386	30.6	-43 52	9.1	9.4	Ko	2	..	15319b
9	5744	30.2	-49 0	9.4	9.6	Fo	3	..	38573b	59	6631	30.6	-44 15	9.8	9.3	Ao	2	..	13780b
10	3690	30.2	-53 7	9.7	9.8	A2	1	..	40250b	60	6630	30.6	-44 26	10.2	10.8	Mb	..	..	M
11	1340	30.2	-64 32	8.7	8.7	B8	3	..	38834b	61	3955	30.6	-53 14	9.0	9.1	A3	3	..	40250b
12	2164	30.3	+30 56	8.6	9.6	Ko	3	..	38711i	62	3952	30.6	-53 34	9.7	9.7	Ao	2	..	40250b
13	8122	30.3	-25 52	7.64	8.7	Ko	7	..	22920b	63	3520	30.6	-56 19	8.9	10.0	K5	1	..	40250b
14	6826	30.3	-34 34	7.7	9.3	Ko	4	..	13048b	64	3521	30.6	-56 50	8.8	9.1	B2	4	..	38749b
15	5968	30.3	-41 14	7.5	8.4	K2	5	..	15319b	65	3451	30.6	-58 6	9.1	9.1	B8	3	..	38749b
16	5969	30.3	-41 35	8.8	9.7	K2	1	..	15319b	66	2225	30.6	-59 19	9.5	9.4	B5	2	..	21154b
17	6626	30.3	-44 48	10.2	9.9	Ao	2	..	15319b	67	1983	30.6	-60 29	6.36	8.2	K2	3	..	43205b
18	5994	30.3	-48 1	10.0	10.4	F5	2	..	38573b	68	2161	30.7	+35 38	8.8	9.6	G5	3	..	37582b
19	5745	30.3	-48 45	8.4	9.8	K2	1	..	13780b	69	2162	30.7	+35 23	8.6	9.6	Ko	2	..	37582b
20	5365	30.3	-49 44	9.1	9.6	Ko	2	..	13780b	70	2355	30.7	+19 10	8.3	8.3	Ao	7	..	38647i
21	4855	30.3	-51 12	8.9	9.5	Ao	4	..	40250b	71	2322	30.7	+ 6 11	9.7	10.8	K2	1	..	13394b
22	3693	30.3	-52 36	8.6	9.8	B8	3	..	40250b	72	2956	30.7	- 4 5	10.0	11.0	Ko	2	..	19393b
23	2165	30.4	+31 10	9.3	10.1	G5	2	..	38711i	73	3208	30.7	-12 29	8.1	9.1	Ko	5	..	19017b
24	3177	30.4	- 2 31	9.1	9.4	F2	4	..	19393b	74	5750	30.7	-48 46	9.2	9.5	A3	2	..	13780b
25	2906	30.4	- 4 51	7.30	7.36	A2	10	..	19393b	75	5369	30.7	-49 56	8.0	8.9	B9	7	..	13780b
26	3097	30.4	- 5 45	9.6	10.0	F5	2	..	13379b	76	3585	30.7	-56 2	8.9	9.5	A5	2	..	40250b
27	2914	30.4	-12 14	9.3	10.3	K	1	..	19017b	77	2229	30.7	-59 31	8.9	9.9	Ko	1	..	21154b
28	3205	30.4	-12 21	6.78	6.92	A5	..	5.9	56.87	78	1989	30.7	-60 25	9.4	9.4	B9	3	..	21154b
29	3082	30.4	-15 44	9.3	9.8	F8	1	..	19017b	79	1985	30.7	-60 30	9.3	9.4	A3	3	..	21154b
30	2954	30.4	-22 45	9.3	9.2	A3	3	..	13324b	80	1211	30.7	-68 32	9.3	9.4	A3	2	..	40297b
31	5970	30.4	-41 24	10.1	9.4	A3	2	..	15319b	81	1973	30.8	+49 39	8.92	9.99	K2	1	..	38672i
32	3950	30.4	-54 1	8.9	10.0	K5	1	..	40250b	82	1879	30.8	+48 14	8.5	9.1	Go	4	E	38308i
33	2310	30.4	-58 30	9.2	9.2	Ao	2	..	38749b	83	2246	30.8	+17 33	8.9	9.5	G	1	..	38647i
34	1127	30.4	-70 48	9.9	10.0	A3	2	..	39946b	84	2138	30.8	+16 24	8.7	9.3	Go	2	..	38647i
35	748	30.4	-73 34	9.6	9.6	Ao	2	..	40298b	85	2235	30.8	+12 8	7.9	9.0	K2	4	..	38228i
36	559	30.4	-78 42	9.8	9.8	B9	3	..	21453b	86	2410	30.8	- 1 32	8.7	8.7	Ao	5	..	19393b
37	1878	30.5	+48 1	9.1	10.2	K2	1	..	38672i	87	3066	30.8	- 8 1	7.7	8.8	K2	3	..	13379b
38	2381	30.5	+18 34	7.9	8.9	Ko	4	..	38647i	88	3209	30.8	-12 28	10.2	10.2	Ao	1	..	19017b
39	2265	30.5	+14 10	9.5	10.1	Go	1	..	38666i	89	3165	30.8	-13 26	7.7	8.1	F5	..	0.9	56.87
40	2356	30.5	+ 5 37	8.6	9.1	F8	5	..	13394b	90	3187	30.8	-18 3	6.43	6.43	Ao	8	..	13136b
41	2951	30.5	- 3 29	9.3	9.7	F5	4	..	19393b	91	8290	30.8	-28 34	10.3	11.1	Ao	1	..	22920b
42	3206	30.5	-12 22	9.6	10.6	Ko	1	..	19017b	92	6553	30.8	-35 19	8.8	9.2	Ao	4	0.3	13048b
43	3088	30.5	-16 41	8.1	8.2	A3	4	..	13136b	93	6579	30.8	-39 3	var.	var.	Nb	..	0.3 R	56.128
44	9170	30.5	-24 57	9.3	9.9	F5	4	..	22920b	94	6304	30.8	-44 3	9.6	9.9	F8	1	..	15319b
45	..	30.5	-53 44	var.	var.	N	1	R	40097b	95	6208	30.8	-45 23	7.68	8.1	F2	6	..	13780b
46	3578	30.5	-55 24	8.6	8.6	A2	5	..	40250b	96	6004	30.8	-47 49	9.8	9.3	B9	3	..	38573b
47	3518	30.5	-56 28	8.1	9.1	Ko	3	..	40250b	97	1342	30.8	-64 53	8.3	8.9	Go	2	..	38834b
48	1493	30.5	-63 23	9.0	9.0	Ao	2	..	38834b	98	1270	30.9	+60 18	9.1	9.9	G5	2	..	37716i
49	1391	30.5	-68 5	9.0	10.0	Ko	1	..	40297b	99	1974	30.9	+48 49	8.7	9.7	Ko	1	..	38672i
50	1265	30.6	+58 50	8.7	9.2	F8	3	..	37716i	100	2266	30.9	+14 19	7.64	7.70	A2	6	..	38228i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

91800

10^h 30^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2331	30.9	+ 7 33	8.5	9.5	Ko	2	..	38228i	51	1397	31.2	-67 57	8.8	10.0	K5	2	..	40297b
2	2394	30.9	+ 3 16	7.7	8.7	Ko	3	..	37731i	52	359	31.2	-83 38	8.56	9.0	F2	3	..	13465b
3	3090	30.9	-16 52	8.3	9.7	Ma	2	..	13136b	53	1269	31.3	+58 38	9.4	10.0	G	2	..	37716i
4	6501	30.9	-36 51	7.01	7.9	A3	7	..	41389b	54	1268	31.3	+58 24	9.1	9.9	G5	3	..	37716i
5	6395	30.9	-43 9	6.20	7.3	G5	5	..	43044b	55	2104	31.3	+26 41	8.9	9.9	Ko	2	..	38208i
6	4862	30.9	-51 41	9.8	9.5	A2	2	..	40250b	56	2243	31.3	+22 7	8.8	9.6	G5	2	..	38208i
7	3706	30.9	-52 16	9.0	9.8	A	1	..	40250b	57	2411	31.3	- 1 16	8.5	9.0	F8	7	..	19393b
8	2323	30.9	-58 34	9.1	9.1	B9	3	..	21154b	58	3108	31.3	-10 4	6.50	6.64	A5	5	0.9	11062b
9	405	31.0	+76 58	8.5	8.5	Ao	3	2.5	37465i	59	3149	31.3	-14 44	9.2	9.7	F8	1	..	19017b
10	1278	31.0	+56 57	6.68	7.68	Ko	6	..	37717i	60	8297	31.3	-28 37	8.8	9.0	A3	3	..	13048b
11	2224	31.0	+15 19	8.1	9.5	Ma	2	..	38647i	61	6505	31.3	-36 16	8.9	9.5	A2	3	..	41389b
12	2173	31.0	+10 7	8.5	9.6	K2	2	..	38228i	62	6649	31.3	-37 32	9.2	9.8	Ko	2	..	41389b
13	2332	31.0	+ 7 12	10.0	11.1	K2	1	..	13394b	63	6402	31.3	-43 17	8.0	8.1	Ao	5	..	15319b
14	2461	31.0	+ 1 13	8.3	8.8	F8	2	..	37731i	64	6642	31.3	-44 30	9.8	9.9	Ko	1	..	15319b
15	3178	31.0	- 2 29	9.6	10.4	G5	2	..	19393b	65	5380	31.3	-49 15	9.8	9.5	A2	3	..	38573b
16	2916	31.0	-11 24	7.9	8.9	Ko	7	..	19017b	66	5382	31.3	-50 1	9.8	10.1	A2	2	..	38573b
17	8292	31.0	-29 4	11.0	11.1	A5	2	..	22920b	67	3711	31.3	-52 57	8.9	10.4	K5	1	..	40250b
18	6585	31.0	-38 46	10.8	9.6	Ao	3	..	41389b	68	3969	31.3	-53 44	9.9	10.2	Fo	2	..	40097b
19	6510	31.0	-39 14	10.1	9.4	Ao	2	..	41389b	69	3472	31.3	-57 10	7.3	7.9	Ko	4	..	43205b
20	6341	31.0	-42 32	8.9	8.5	F2	4	..	15319b	70	3471	31.3	-57 19	8.9	8.6	Ao	5	..	40090b
21	6398	31.0	-43 28	10.2	9.4	Ao	2	..	15319b	71	1320	31.3	-67 2	9.2	9.3	A2	2	..	40297b
22	3825	31.0	-54 10	9.1	9.1	Ao	5	..	40250b	72	672	31.3	-75 22	8.8	9.6	G5	2	..	21453b
23	3593	31.0	-56 4	8.4	9.7	K5	2	..	40250b	73	671	31.3	-75 32	8.0	9.0	Ko	5	..	21453b
24	3463	31.0	-57 39	8.6	8.2	Oes	3	5.7	21154b	74	791	31.4	+65 29	8.7	9.7	Ko	3	..	37346i
25	2236	31.0	-59 24	8.6	8.6	B9	3	..	21154b	75	2102	31.4	+37 44	8.4	9.5	K2	4	..	37582i
26	2235	31.0	-59 46	8.3	8.2	B2	5	1.9	31521b	76	2269	31.4	+14 34	8.24	8.74	F8	3	..	38228i
27	636	31.0	-76 24	9.5	10.6	K2	1	..	21453b	77	2252	31.4	+11 33	8.7	9.7	Ko	2	..	38228i
28	166	31.1	+85 16	8.6	9.6	Ko	4	E	38332i	78	2360	31.4	- 1 13	9.5	10.0	F8	2	..	19393b
29	2092	31.1	+36 16	8.9	9.3	F5	5	..	37582i	79	2959	31.4	- 3 35	10.5	11.0	F8	1	..	19393b
30	2333	31.1	+ 6 59	9.3	9.9	Go	4	..	13394b	80	3087	31.4	-15 50	6.23	7.41	K5	10	..	19017b
31	2337	31.1	+ 2 15	8.9	9.9	Ko	2	..	13378b	81	8022	31.4	-26 10	6.25	7.4	F8	10	..	22920b
32	3179	31.1	- 2 50	9.3	10.3	Ko	1	..	19393b	82	6254	31.4	-46 47	8.6	8.5	B8	5	..	13780b
33	6833	31.1	-35 3	9.18	9.8	K	1	..	41389b	83	4876	31.4	-51 28	9.4	9.5	Ao	4	..	40250b
34	6011	31.1	-47 46	9.8	9.9	Go	2	..	38573b	84	3973	31.4	-53 16	10.0	10.0	A	1	..	40250b
35	4868	31.1	-51 26	9.2	9.6	A2	4	..	40250b	85	2225	31.5	+15 42	8.9	9.7	G5	1	..	38647i
36	3826	31.1	-54 54	8.2	8.5	Fo	3	..	40250b	86	2358	31.5	+ 4 28	9.3	10.5	K5	2	..	13394b
37	2239	31.1	-59 40	8.5	8.8	B	8	..	21154b	87	2910	31.5	- 4 19	9.3	10.3	Ko	2	..	19393b
38	1499	31.1	-63 12	9.2	9.2	Ao	2	..	38834b	88	3103	31.5	- 5 19	9.45	10.23	G5	1	..	13379b
39	1350	31.1	-64 49	8.5	8.6	A2	4	..	38834b	89	2918	31.5	-11 42	5.85	6.35	F8	7	..	11062b
40	1794	31.2	+47 4	7.8	8.8	Ko	4	0.5	38308i	90	3088	31.5	-15 41	8.9	9.3	F5	4	..	19017b
41	2135	31.2	+42 39	9.4	10.2	G5	1	..	38640i	91	8301	31.5	-29 2	9.2	10.8	Go	3	..	22920b
42	1908	31.2	+28 18	8.7	9.7	Ko	2	..	38208i	92	6219	31.5	-46 0	7.9	9.3	Ko	2	..	13780b
43	2139	31.2	+16 33	8.5	9.5	Ko	1	..	38647i	93	4877	31.5	-51 32	8.9	9.2	F5	3	..	40250b
44	2384	31.2	+ 8 42	8.7	9.1	F5	7	..	13394b	94	3974	31.5	-54 1	9.4	9.4	Ao	3	..	40250b
45	3221	31.2	-20 56	8.7	9.5	A2	3	..	13324b	95	1353	31.5	-64 23	8.6	9.2	Go	2	..	38834b
46	6589	31.2	-39 5	9.7	8.8	Fo	4	..	41389b	96	1354	31.5	-64 41	8.6	8.6	B8	3	..	38834b
47	5377	31.2	-49 40	7.8	9.2	K2	3	..	13780b	97	1417	31.5	-65 18	9.2	9.2	Ao	2	..	38834b
48	3829	31.2	-54 54	7.28	7.9	Go	7	..	40250b	98	1214	31.5	-68 41	9.4	9.4	Ao	2	..	40297b
49	3597	31.2	-55 52	9.7	9.7	Ao	2	..	40250b	99	2093	31.6	+36 6	9.0	10.0	Ko	2	..	37582i
50	3468	31.2	-57 40	9.3	9.1	B2	2	..	38749b	100	2382	31.6	+17 47	8.7	9.5	G5	1	..	38647i

THE HENRY DRAPER CATALOGUE.

91900

10^h 31^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3170	31.6	-13 20	8.8	9.8	Ko	4	..	19017b	51	2273	31.9	+25 6	9.7	10.5	G5	1	..	38208i
2	8137	31.6	-25 38	10.0	10.8	Go	1	..	22920b	52	3214	31.9	-13 1	8.7	9.0	F2	6	..	19017b
3	8024	31.6	-26 35	10.0	10.8	G5	1	..	22920b	53	3151	31.9	-14 54	8.6	9.6	Ko	6	..	19017b
4	5764	31.6	-48 43	7.1	8.0	B9	8	..	13780b	54	3192	31.9	-17 52	9.1	9.1	Ao	3	..	13136b
5	4879	31.6	-51 11	9.8	9.6	Fo	1	..	40097b	55	8306	31.9	-28 15	6.75	7.4	Ao	..	0.9	56,128
6	1501	31.6	-63 37	7.8	7.8	Ao	7	..	31521b	56	8567	31.9	-31 3	8.6	8.2	Ao	5	..	13048b
7	1326	31.6	-66 39	8.9	8.9	B9	7	..	40297b	57	6653	31.9	-44 34	9.2	9.6	Ao	2	..	15319b
8	11138	31.6	-70 39	9.1	9.7	G	2	..	39946b	58	2019	31.9	-60 16	9.7	9.7	Ao	3	R	21154b
9	1401	31.7	+55 25	9.4	10.0	Go	2	..	38665i	59	1509	31.9	-63 28	8.9	8.9	B9	2	..	38834b
10	2280	31.7	+13 23	7.52	7.52	Ao	7	..	38228i	60	2176	32.0	+ 9 54	8.52	9.52	Ko	1	..	38228i
11	2335	31.7	+ 7 9	10.0	10.8	G5	2	..	13394b	61	3070	32.0	- 7 16	8.6	8.9	F2	3	..	13379b
12	3069	31.7	- 8 12	8.3	9.5	K5	2	..	13379b	62	2963	32.0	- 8 19	7.12	7.68	Go	7	..	13379b
13	2961	31.7	- 9 6	8.6	9.4	G5	2	..	13379b	63	3062	32.0	-19 22	8.1	9.2	Ko	2	..	13324b
14	3109	31.7	- 9 19	9.1	9.9	G5	1	..	13379b	64	7567	32.0	-27 9	6.83	8.4	K2	7	..	22920b
15	3213	31.7	-12 57	9.3	9.8	F8	1	..	19017b	65	7479	32.0	-32 45	7.17	7.1	Ao	8	..	13048b
16	3171	31.7	-13 38	9.8	10.8	K	1	..	19017b	66	4882	32.0	-51 21	8.4	9.2	Ko	5	..	40250b
17	8025	31.7	-26 13	8.2	8.1	B9	8	..	22920b	67	3982	32.0	-53 21	9.7	9.7	A	1	..	40250b
18	8564	31.7	-30 50	8.4	8.5	F5	3	..	13048b	68	3981	32.0	-53 26	8.9	9.4	Ko	2	..	40250b
19	7472	31.7	-32 19	8.1	8.2	A3	3	..	13048b	69	3508	32.0	-57 43	7.4	6.9	Bo	..	..	28,204
20	6568	31.7	-35 51	8.5	9.2	G5	4	..	41389b	70	2349	32.0	-58 30	8.8	8.8	Ao	4	..	21154b
21	6507	31.7	-37 6	9.2	9.8	G5	1	..	41389b	71	1282	32.1	+57 37	8.5	9.3	G5	3	E	37717i
22	6256	31.7	-46 35	8.4	8.5	F2	5	..	13780b	72	2094	32.1	+35 59	9.6	9.9	F2	3	..	37582i
23	6257	31.7	-46 58	8.2	8.2	Ao	5	..	13780b	73	2376	32.1	+ 8 56	10.7	11.7	Ko	1	..	13394b
24	5765	31.7	-48 18	9.8	10.1	Ko	1	..	38573b	74	2919	32.1	-11 47	9.6	10.7	K2	1	..	19017b
25	5388	31.7	-49 28	8.4	9.6	K2	1	..	13780b	75	3109	32.1	-22 9	7.24	8.6	K5	6	..	13324b
26	5387	31.7	-49 38	9.4	9.6	A3	2	..	38573b	76	8469	32.1	-29 11	9.8	10.0	G5	2	..	22920b
27	5264	31.7	-50 55	7.8	9.5	K5	5	..	40250b	77	8470	32.1	-30 2	8.6	9.5	A2	3	..	22920b
28	1729	31.7	-61 11	8.9	9.7	Ko	2	..	21154b	78	8570	32.1	-30 29	9.2	10.3	K2	2	..	22920b
29	1329	31.7	-66 17	9.2	9.2	Ao	2	..	40297b	79	8376	32.1	-31 9	8.1	9.4	Ko	1	..	13048b
30	1299	31.7	-69 50	8.6	10.0	Ma	2	..	40297b	80	6514	32.1	-36 21	8.5	9.2	G5	4	..	41389b
31	1422	31.8	+53 44	9.0	9.4	F5	3	E	37717i	81	6028	32.1	-47 20	7.3	8.2	Go	5	..	13780b
32	2251	31.8	+23 58	7.9	8.3	F5	3	..	38208i	82	5391	32.1	-49 38	9.2	9.6	A3	2	..	13780b
33	2359	31.8	+ 5 18	8.6	9.4	G5	4	..	13394b	83	3516	32.1	-57 45	8.9	8.9	B	6	..	38749b
34	3194	31.8	- 6 22	8.5	9.0	F8	3	..	13379b	84	2022	32.1	-60 45	9.4	9.9	F8	2	..	21154b
35	3172	31.8	-13 33	8.7	9.8	K2	4	..	19017b	85	1220	32.1	-68 50	7.4	8.8	Ma	6	..	40297b
36	8138	31.8	-25 20	9.8	9.6	A2	4	..	22920b	86	1219	32.1	-69 6	10.0	10.0	Ao	1	..	40297b
37	8566	31.8	-30 18	9.8	10.0	K2	3	..	22920b	87	2012	32.2	+33 12	8.2	8.7	F8	4	..	37582i
38	7475	31.8	-32 42	10.1	9.5	G	1	R	13048b	88	2359	32.2	+18 53	8.3	9.1	G5	4	..	38647i
39	6258	31.8	-46 40	9.2	9.9	Ko	3	..	38573b	89	2227	32.2	+15 40	8.9	9.9	Ko	1	..	38647i
40	3977	31.8	-53 47	8.9	8.5	B9	7	..	40250b	90	2680	32.2	+ 0 2	9.3	9.9	G	2	..	19393b
41	3607	31.8	-55 20	9.3	9.4	A2	2	..	40250b	91	3181	32.2	- 2 33	9.3	9.6	Fo	2	..	19393b
42	3544	31.8	-57 3	4.54	6.8	K5	..	3,7 R	28,204	92	3094	32.2	-11 14	6.52	6.80	Fo	6	5,10	11062b
43	3499	31.8	-57 41	7.7	7.1	Bo	..	R	28,204	93	6030	32.2	-47 24	7.7	8.1	B9	6	..	13780b
44	1507	31.8	-63 42	8.3	8.3	Ao	3	0,3	31521b	94	5770	32.2	-48 14	10.0	9.8	Fo	2	..	38573b
45	1332	31.8	-66 53	8.5	9.5	Ko	2	..	40297b	95	3556	32.2	-56 13	8.5	9.5	Ko	1	..	40250b
46	1217	31.8	-69 4	8.6	10.0	Ma	1	..	40297b	96	1511	32.2	-63 12	8.9	8.9	Ao	2	..	38834b
47	1059	31.8	-71 58	8.4	9.4	Ko	4	..	40298b	97	1510	32.2	-63 46	8.4	8.4	Ao	3	1,2	31521b
48	1274	31.9	+60 38	6.87	7.37	F8	8	..	37716i	98	347	32.3	+81 45	8.6	9.0	F5	3	..	37465i
49	2166	31.9	+35 16	9.0	9.3	Fo	2	..	37582i	99	2107	32.3	+40 56	8.1	8.4	F2	5	..	38640i
50	2271	31.9	+25 36	8.3	9.1	G5	2	..	38208i	100	2145	32.3	+34 36	6.65	7.65	Ko	8	..	37582i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

92000

10^h 32^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2281	32.3	+12 52	8.7	9.8	K ₂	1	..	38228i	51	2247	32.6	+22 35	8.7	8.7	Ao	3	..	38208i
2	2962	32.3	- 3 44	9.6	10.6	Ko	1	..	19393b	52	3183	32.6	- 2' 44	9.6	9.9	F ₂	2	..	19393b
3	3096	32.3	-11 0	8.7	9.5	G ₅	3	..	19017b	53	2965	32.6	- 3 22	9.2	9.6	F ₅	5	..	19393b
4	8031	32.3	-26 10	10.5	10.2	Go	2	..	22920b	54	2967	32.6	- 9 12	8.9	9.0	A ₂	5	..	13379b
5	6661	32.3	-37 56	8.2	8.1	Ao	7	..	41389b	55	3218	32.6	-12 52	var.	var.	Nb	..	0.5 R	56,87
6	5393	32.3	-50 8	9.2	9.8	Ko	1	..	38573b	56	8383	32.6	-31 15	6.80	8.2	Ko	5	..	13048b
7	3527	32.3	-57 44	9.3	9.1	B	6	..	38749b	57	6158	32.6	-40 50	7.1	7.7	Ko	7	..	41389b
8	2026	32.3	-60 23	9.4	9.4	B ₉	4	..	21154b	58	5396	32.6	-49 18	8.9	9.8	K ₂	1	..	38573b
9	1304	32.3	-70 6	8.0	8.0	Ao	8	..	40297b	59	3856	32.6	-54 36	9.4	9.4	Ao	2	..	40250b
10	1060	32.3	-71 13	9.7	9.7	Ao	2	..	39946b	60	3545	32.6	-57 26	8.7	8.5	B ₂	4	..	40090b
11	419	32.4	+75 25	8.52	9.59	K ₂	3	..	37742i	61	2372	32.6	-58 26	9.0	8.9	B ₅	3	..	21154b
12	2507	32.4	+20 29	8.4	8.8	F ₅	3	..	38647i	62	2370	32.6	-58 31	8.5	8.9	F ₅	5	..	21154b
13	2384	32.4	+17 48	7.6	8.0	F ₅	7	..	38647i	63	2371	32.6	-59 3	5.26	6.9	Ko	..	0.6 R	28,204
14	2362	32.4	+ 5 37	8.6	9.1	F ₈	2	..	13394b	64	2299	32.6	-60 7	9.7	9.7	B ₈	2	..	21154b
15	2966	32.4	- 9 1	9.3	9.9	Go	1	..	13379b	65	2031	32.6	-60 52	8.9	9.7	B ₈	3	..	21154b
16	3099	32.4	-10 31	8.6	9.6	Ko	5	..	19017b	66	1513	32.6	-63 44	8.0	8.0	B ₉	5	4.4	31521b
17	9421	32.4	-23 23	8.2	10.1	Mb	2	..	22920b	67	675	32.7	+66 2	9.4	9.4	Ao	3	..	37346i
18	8146	32.4	-25 28	10.0	10.5	F ₈	2	..	22920b	68	2043	32.7	+30 1	8.9	9.9	Ko	1	..	38711i
19	6846	32.4	-34 12	9.2	9.5	Ko	1	..	13048b	69	3100	32.7	-10 32	8.5	9.3	G ₅	4	..	19017b
20	6847	32.4	-34 24	8.6	9.8	K ₂	1	..	13048b	70	2982	32.7	-18 50	8.5	8.6	A ₂	2	..	13136b
21	3853	32.4	-54 20	9.1	9.4	Fo	2	..	40250b	71	5277	32.7	-50 10	9.2	10.1	F ₅	1	..	38573b
22	3534	32.4	-57 15	9.0	9.1	Ao	3	..	40090b	72	2380	32.7	-58 40	7.1	6.7	B ₅	4	..	43205b
23	3535	32.4	-57 21	8.5	9.1	K ₅	2	..	40090b	73	1738	32.7	-61 42	9.4	9.4	Ao	3	..	21154b
24	3533	32.4	-57 42	8.8	9.1	B	3	..	38749b	74	1468	32.8	+56 2	8.9	9.5	Go	2	..	38665i
25	2292	32.4	-59 40	7.9	7.9	B ₃	5	0.7	31521b	75	2109	32.8	+40 51	8.5	9.0	F ₈	3	..	38640i
26	2027	32.4	-60 15	9.3	9.7	F ₅	2	..	21154b	76	2060	32.8	+32 31	8.8	9.2	F ₅	3	..	37582i
27	1734	32.4	-61 21	8.6	8.5	B ₅	4	0.4	31521b	77	2273	32.8	+14 39	9.34	10.34	Ko	1	..	38666i
28	676	32.4	-75 27	10.1	10.1	Ao	3	..	21453b	78	2364	32.8	+ 4 58	8.9	10.1	K ₅	1	..	13394b
29	449	32.4	-81 25	7.02	7.0	B ₈	9	..	13465b	79	3197	32.8	-17 18	8.7	8.7	Ao	4	..	13136b
30	620	32.5	+70 40	7.8	8.3	F ₈	3	3.3	38663i	80	8480	32.8	-29 28	8.2	8.9	Go	3	..	13048b
31	2106	32.5	+26 0	9.0	9.4	F ₅	1	..	38208i	81	6368	32.8	-42 10	9.0	9.4	Ko	1	..	15319b
32	2229	32.5	+15 31	8.5	8.6	A ₂	2	..	38647i	82	6037	32.8	-48 4	9.4	10.5	Ko	1	..	38573b
33	2682	32.5	- 0 6	9.28	9.84	Go	3	..	19393b	83	5283	32.8	-50 11	9.2	9.6	A ₅	2	..	38573b
34	2921	32.5	-11 53	6.93	7.93	Ko	8	..	19017b	84	5281	32.8	-50 22	7.6	8.6	G ₅	5	..	13780b
35	8148	32.5	-25 47	9.6	10.2	Ko	2	..	22920b	85	3863	32.8	-54 42	8.3	9.7	K ₅	2	..	40250b
36	8033	32.5	-26 53	5.08	7.4	K ₅	..	..	56,128	86	2382	32.8	-58 19	9.4	9.4	Ao	2	..	21154b
37	8310	32.5	-28 40	9.6	11.1	Ko	2	..	22920b	87	2387	32.8	-58 39	7.9	7.9	B ₅	2	..	43205b
38	6522	32.5	-37 1	9.2	9.8	Go	1	..	41389b	88	2386	32.8	-58 50	8.6	8.3	A	4	..	40090b
39	5997	32.5	-42 1	9.9	9.3	A ₂	3	..	15319b	89	1659	32.8	-62 42	9.5	9.5	Ao	1	..	38834b
40	6268	32.5	-46 44	7.6	7.9	G ₅	6	..	13780b	90	..	32.8	-70 12	var.	var.	Md	..	R	56,201
41	5775	32.5	-48 11	9.6	10.4	K ₂	1	..	38573b	91	467	32.8	-81 6	7.50	8.3	Ko	5	..	13465b
42	4894	32.5	-51 35	9.6	9.5	A ₃	4	..	40250b	92	166	32.8	-87 13	8.4	9.5	K ₂	2	..	13459b
43	3854	32.5	-54 51	8.8	9.1	Go	4	..	40250b	93	406	32.9	+77 45	8.1	8.1	Ao	5	0.6	37465i
44	3540	32.5	-57 46	8.9	8.5	Bo	5	..	21154b	94	1271	32.9	+57 55	9.0	9.8	G ₅	3	..	37716i
45	1736	32.5	-61 10	9.2	9.2	B ₉	2	..	21154b	95	1387	32.9	+54 12	5.72	6.72	Ko	8	..	37717i
46	1338	32.5	-66 32	8.5	9.5	K	1	..	40297b	96	2922	32.9	-11 30	9.6	11.0	Mb	3	..	19017b
47	1306	32.5	-69 18	7.9	7.9	B ₉	9	..	40297b	97	3064	32.9	-19 46	8.9	9.0	G ₅	4	..	13324b
48	1977	32.6	+49 44	7.92	8.92	Ko	3	..	38672i	98	2963	32.9	-22 52	7.36	8.3	Ko	6	..	13324b
49	1914	32.6	+27 7	8.7	9.7	Ko	2	..	38208i	99	8151	32.9	-26 4	9.5	9.9	Go	3	..	22920b
50	2277	32.6	+25 31	9.6	10.1	F ₈	1	..	38208i	100	7112	32.9	-33 40	9.1	9.4	A ₃	2	..	13048b

THE HENRY DRAPER CATALOGUE.

92100

10^h 32^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6528	32.9	-36 36	10.8	9.8	Ao	3	..	41389b	51	2326	33.2	+ 6 27	7.6	7.7	A3	7	..	37731i
2	6671	32.9	-44 58	7.8	8.7	Ko	5	..	13780b	52	2363	33.2	+ 4 38	9.05	9.11	A2	3	..	13394b
3	3998	32.9	-53 43	8.2	8.5	Ko	7	..	40250b	53	3225	33.2	-20 18	8.68	8.6	A5	4	..	13324b
4	3865	32.9	-54 49	8.4	8.5	Ao	6	..	40250b	54	6240	33.2	-45 49	7.9	9.3	Ko	3	..	13780b
5	2388	32.9	-58 48	8.8	8.5	A2	3	..	40090b	55	4002	33.2	-53 20	6.66	6.3	B3	..	5,10	56,128
6	468	32.9	-80 39	7.93	7.6	Ao	6	..	13465b	56	3873	33.2	-54 41	8.1	8.6	Go	7	..	40250b
7	2096	33.0	+35 57	10.0	10.4	F5	2	..	37582i	57	714	33.2	-74 33	8.4	8.4	B9	4	..	40298b
8	2109	33.0	+26 26	8.7	9.5	G5	3	..	38208i	58	677	33.2	-75 26	10.4	10.4	Ao	1	..	21453b
9	2230	33.0	+14 47	9.09	9.87	G5	2	..	38666i	59	1915	33.3	+27 44	9.7	9.8	A2	1	..	38208i
10	2380	33.0	+ 9 43	8.27	8.69	F5	3	..	38228i	60	7118	33.3	-33 28	9.1	9.4	Ao	2	..	13048b
11	2414	33.0	- 1 44	8.9	9.5	Go	1	..	19393b	61	6242	33.3	-45 24	8.8	9.3	K2	2	..	13780b
12	2967	33.0	- 3 32	9.8	9.9	A3	3	..	19393b	62	4903	33.3	-51 18	8.9	9.8	Ko	1	..	40250b
13	2966	33.0	- 3 50	10.0	10.4	F5	2	..	19393b	63	3741	33.3	-53 6	8.8	9.6	Ko	2	..	40250b
14	3102	33.0	-11 0	8.1	8.7	Go	8	..	19017b	64	3876	33.3	-54 24	9.4	9.4	Ao	3	..	40250b
15	3219	33.0	-12 26	8.1	8.1	Ao	6	..	19017b	65	1433	33.3	-66 5	9.3	9.3	A	1	..	40297b
16	7576	33.0	-27 33	8.0	8.1	Ao	7	..	22920b	66	994	33.3	-73 2	9.2	10.2	Ko	1	..	39946b
17	6533	33.0	-37 5	8.8	9.8	G5	3	..	41389b	67	1980	33.4	+49 20	9.4	10.0	Go	1	..	38672i
18	6672	33.0	-37 33	8.1	9.9	K5	1	..	41389b	68	2166	33.4	+38 26	5.83	6.61	G5p	8	R	38640i
19	6236	33.0	-45 50	10.9	9.9	Fo	2	..	38573b	69	1916	33.4	+27 12	10.0	11.0	K	1	..	38208i
20	3869	33.0	-54 26	9.7	9.7	Ao	2	..	40250b	70	2277	33.4	+14 33	8.5	9.5	Ko	2	..	38228i
21	3562	33.0	-57 47	8.7	9.1	A3	5	..	40090b	71	2386	33.4	+ 8 41	10.0	10.5	F8	1	..	13394b
22	3562	33.0	-58 1	10.3	10.3	Ao	2	R	38749b	72	8155	33.4	-25 48	10.5	10.2	F2	1	..	22920b
23	3561	33.0	-58 2	10.3	10.3	Ao	2	R	38749b	73	3633	33.4	-55 20	9.2	9.7	F8	1	..	40097b
24	1850	33.1	+45 22	8.7	9.9	K5	1	0,1	38640i	74	2404	33.4	-58 43	8.9	8.9	B9	3	..	40090b
25	2061	33.1	+32 30	4.77	5.33	Go	..	0,10	56,87	75	1363	33.4	-64 34	8.5	9.5	Ko	1	..	38834b
26	2509	33.1	+20 8	8.45	8.53	A3	3	0,3	38647i	76	1416	33.4	-67 44	9.1	9.1	Ao	3	..	40297b
27	2275	33.1	+14 29	8.5	8.9	F5	3	..	38228i	77	755	33.4	-74 5	9.1	10.3	K5	1	..	40298b
28	2339	33.1	+ 7 0	8.9	9.7	G5	6	..	13394b	78	562	33.4	-78 11	9.5	10.7	K5	2	..	21453b
29	2343	33.1	+ 1 46	8.0	8.4	F5	4	..	37731i	79	313	33.5	+82 5	9.1	9.2	A3	2	..	37465i
30	2415	33.1	- 1 27	8.7	8.8	A3	5	..	19393b	80	2071	33.5	+29 43	9.01	9.51	F8	1	..	38711i
31	3110	33.1	- 5 30	9.1	9.7	Go	3	..	13379b	81	2110	33.5	+26 18	8.4	8.7	F2	3	..	38208i
32	3103	33.1	-10 42	8.8	8.9	A2	7	..	19017b	82	2252	33.5	+17 32	8.9	9.5	Go	2	..	38647i
33	3222	33.1	-12 26	9.6	10.2	Go	2	..	19017b	83	2284	33.5	+13 16	8.5	9.5	Ko	3	..	38228i
34	3097	33.1	-17 13	8.1	8.2	A5	6	..	13136b	84	2328	33.5	+ 6 15	7.6	7.9	F2	7	..	37731i
35	8322	33.1	-28 35	8.1	8.5	A2	6	..	13048b	85	2417	33.5	- 1 32	8.1	8.2	A3	9	..	19393b
36	6590	33.1	-35 12	7.04	7.5	B9	8	0,10	41389b	86	3180	33.5	-13 35	8.9	9.9	Ko	3	..	19017b
37	6375	33.1	-43 0	7.1	7.7	F2	3	..	43044b	87	6380	33.5	-42 20	10.0	9.4	Ao	2	..	15319b
38	6039	33.1	-47 22	7.9	8.1	B9	6	..	13780b	88	6282	33.5	-46 48	10.0	9.3	F2	5	..	38573b
39	6042	33.1	-47 42	4.06	4.40	F2	..	R	28,204	89	3579	33.5	-57 55	8.9	9.1	B9	3	..	21154b
40		33.1	-47 42			A3	..			90	2406	33.5	-58 40	8.8	8.2	B9	4	..	40090b
41	5785	33.1	-48 44	8.5	9.5	K5	1	..	13780b	91	1142	33.5	-70 13	8.73	9.1	G5	3	..	40297b
42	3735	33.1	-52 36	9.5	9.6	A2	3	..	40250b	92	349	33.6	+80 57	6.70	6.70	Ao	9	..	37465i
43	3630	33.1	-55 45	8.5	9.4	B9	2	..	40250b	93	1883	33.6	+48 18	8.1	8.4	F2	4	..	38308i
44	3566	33.1	-57 20	8.8	9.1	B8	2	..	40090b	94	2016	33.6	+33 21	8.8	9.3	F8	4	..	37582i
45	3567	33.1	-58 7	9.1	9.1	Ao	3	..	21154b	95	2015	33.6	+32 50	9.6	10.1	F8	2	..	37582i
46	2040	33.1	-60 12	9.4	9.4	B8	3	..	21154b	96	2144	33.6	+16 39	6.62	6.96	F2	9	..	38647i
47	993	33.1	-72 33	10.3	10.3	Ao	1	..	40298b	97	2146	33.6	+16 30	8.0	8.4	F5	2	..	38647i
48	440	33.2	+74 18	7.67	8.09	F5	6	..	37742i	98	2329	33.6	+ 6 30	9.3	9.8	F8	2	..	13394b
49	2165	33.2	+37 47	8.8	9.2	F5	4	..	37582i	99	2418	33.6	- 1 59	9.3	10.5	K5	1	..	19393b
50	2097	33.2	+36 33	7.78	8.56	G5	6	..	37582i	100	3201	33.6	- 6 40	8.2	9.3	K2	3	..	13379b

92200

10^h 33^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7504	33.6	-32 44	9.1	9.4	A	1	..	13048b	51	2423	33.9	-58 59	9.2	9.2	A	2	..	40090b
2	6618	33.6	-38 50	10.1	9.7	F5	1	..	41389b	52	2064	33.9	-60 17	9.44	9.1	Ao	4	0,3 R	21154b
3	6619	33.6	-39 2	9.5	8.7	A3	3	..	41389b	53	679	33.9	-75 17	7.44	8.1	Ko	8	..	21453b
4	6244	33.6	-45 45	8.0	9.0	K5	3	..	13780b	54	2252	34.0	+22 43	8.1	8.1	B9	4	..	38208i
5	3586	33.6	-57 29	9.0	9.5	G5	2	..	40090b	55	3113	34.0	-6 9	8.9	9.2	Fo	4	..	13379b
6	3584	33.6	-58 6	8.7	7.7	B	7	..	21154b	56	3101	34.0	-16 43	9.1	10.1	Ko	2	..	13136b
7	2411	33.6	-58 13	5.57	5.3	A2p	..	1,7 R	28,204	57	2989	34.0	-19 5	8.5	9.6	K2	2	..	13136b
8	1366	33.6	-64 59	9.5	9.5	Ao	1	..	38834b	58	3070	34.0	-20 3	8.1	8.6	A5	6	..	13324b
9	678	33.6	-75 48	6.24	7.7	Ko	10	..	21453b	59	6443	34.0	-43 55	8.6	9.1	A3	4	..	15319b
10	529	33.6	-80 0	7.02	7.4	Fo	6	..	21530b	60	5795	34.0	-48 30	8.4	8.9	Ao	6	..	13780b
11	2146	33.7	+34 22	10.2	10.8	Go	1	..	37582i	61	3886	34.0	-55 0	9.36	9.4	B9	4	..	40250b
12	2387	33.7	+7 53	8.4	8.9	F8	2	..	38228i	62	3647	34.0	-55 26	9.7	9.7	Ao	1	..	40250b
13	3224	33.7	-13 14	9.1	10.1	Ko	1	..	19017b	63	2065	34.0	-61 7	7.9	9.7	K5	3	..	21154b
14	3100	33.7	-16 22	5.11	6.11	Ko	6	R	5897b	64	1346	34.0	-66 46	9.1	9.2	A2	3	..	40297b
15	3200	33.7	-17 22	8.1	8.5	F5	5	..	13136b	65	2354	34.1	+39 55	7.87	8.87	Ko	3	..	38640i
16	6007	33.7	-42 5	9.1	9.3	Ao	3	..	15319b	66	2167	34.1	+38 21	8.0	9.0	Ko	6	..	37582i
17	5792	33.7	-48 14	10.0	9.8	A2	3	..	38573b	67	2990	34.1	-18 36	9.1	9.5	F5	1	..	13136b
18	1315	33.7	-70 4	9.18	8.9	A5	2	..	40297b	68	7131	34.1	-33 59	9.1	9.8	Ko	1	..	13048b
19	1073	33.7	-72 0	7.9	8.0	A2	7	..	40298b	69	6012	34.1	-41 42	8.5	9.3	A2	2	..	43044b
20	1072	33.7	-72 4	9.0	10.2	K5	1	..	40298b	70	6386	34.1	-42 21	9.8	9.9	Ko	2	..	15319b
21	2136	33.8	+42 30	9.4	9.8	F5	1	..	38640i	71	3598	34.1	-57 23	9.5	9.5	Ao	3	..	40090b
22	2064	33.8	+32 13	8.8	9.4	Go	3	..	37582i	72	3599	34.1	-58 4	9.1	8.8	B8	5	..	21154b
23	2232	33.8	+15 16	7.9	8.9	Ko	2	..	38228i	73	2431	34.1	-58 53	9.1	9.1	Ao	4	..	40090b
24	2969	33.8	-3 20	9.2	10.0	G5	2	..	19393b	74	2345	34.1	-59 31	8.8	9.1	B8	4	..	21154b
25	9432	33.8	-24 1	8.2	9.8	K5	2	..	13324b	75	1675	34.1	-63 7	8.7	8.7	B8	2	..	38834b
26	8163	33.8	-25 35	9.5	9.3	A2	3	..	22920b	76	1370	34.1	-64 51	8.9	9.2	F2	1	..	38834b
27	7584	33.8	-27 36	8.8	9.6	F5	3	..	22920b	77	99	34.1	-88 10	8.6	8.9	Fo	4	..	22578b
28	7585	33.8	-27 42	8.3	10.5	G5	2	..	22920b	78	1797	34.2	+47 22	7.30	7.36	A2	7	..	38308i
29	6607	33.8	-35 46	9.1	9.3	Ao	5	..	41389b	79	1917	34.2	+27 10	8.3	9.3	Ko	3	..	38208i
30	6176	33.8	-40 34	8.0	8.8	K2	4	..	41389b	80	2150	34.2	+16 32	8.1	8.9	G5	4	..	38647i
31	6442	33.8	-43 24	9.0	9.0	Ko	3	..	15319b	81	2148	34.2	+15 51	9.5	10.5	Ko	1	..	38647i
32	6287	33.8	-46 57	9.4	9.9	Ko	2	..	38573b	82	2287	34.2	+12 50	8.7	9.7	Ko	1	..	38666i
33	4010	33.8	-53 24	8.9	10.3	Ma	1	..	40097b	83	3114	34.2	-5 22	8.45	8.51	A2	5	..	13379b
34	2418	33.8	-58 37	9.4	9.4	Ao	3	..	40090b	84	3202	34.2	-17 43	9.1	9.7	G	1	..	13136b
35	2417	33.8	-58 47	9.3	9.4	A2	2	..	40090b	85	8409	34.2	-31 13	8.2	9.5	G5	1	..	13048b
36	1749	33.8	-61 9	9.1	9.1	B9	4	..	21154b	86	3893	34.2	-54 9	9.5	9.5	Ao	2	..	40250b
37	1750	33.8	-61 37	8.2	8.8	B9	4	1,5	31521b	87	3588	34.2	-56 44	6.35	5.7	B3	..	0,7	28,204
38	361	33.8	-83 42	8.89	9.5	F5	3	..	13465b	88	2434	34.2	-58 33	8.2	8.0	B9	8	..	40090b
39	101	33.8	-88 51	7.8	8.8	Ko	5	5,5	22578b	89	2432	34.2	-58 54	9.4	9.4	B8	2	..	40090b
40	2109	33.9	+37 3	9.2	9.8	G	2	..	37582i	90	2349	34.2	-59 38	9.0	10.0	K5	2	..	21154b
41	2073	33.9	+29 16	8.3	9.4	K2	1	..	38711i	91	2077	34.2	-60 46	9.1	8.9	B5	5	..	21154b
42	2251	33.9	+22 6	8.6	9.4	G5	3	..	38208i	92	2017	34.3	+33 16	10.0	10.6	G	2	..	37582i
43	3081	33.9	-7 42	8.7	9.9	K5	1	..	13379b	93	2389	34.3	+7 56	8.6	9.2	Go	3	..	38228i
44	3113	33.9	-9 38	8.7	9.7	Ko	2	..	13379b	94	3116	34.3	-5 42	8.8	9.9	K2	5	..	13379b
45	2925	33.9	-11 56	5.89	5.89	Ao	..	0,8 R	1823c	95	3182	34.3	-13 59	9.3	10.1	G5	2	..	19017b
46	3156	33.9	-15 13	7.71	8.71	Ko	7	..	19017b	96	3103	34.3	-17 3	8.6	8.7	A2	6	..	13136b
47	6055	33.9	-47 17	10.9	10.2	Go	2	..	38573b	97	6559	34.3	-37 4	8.3	8.6	A2	5	..	41389b
48	3884	33.9	-54 10	9.4	9.4	A	1	..	40250b	98	6186	34.3	-40 9	7.79	8.1	A3	7	..	41389b
49	3885	33.9	-55 7	9.34	9.1	A5	4	..	40250b	99	6061	34.3	-47 33	9.0	9.3	Ko	1	..	13780b
50	2426	33.9	-58 56	9.7	9.7	Ao	2	..	40090b	100	5420	34.3	-49 12	9.2	9.8	Ko	2	..	38573b

THE HENRY DRAPER CATALOGUE.

92300

10^h 34^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3655	34.3	m. ° ' -55 22	9.5	9.5	Ao	1	..	40250b	51	3614	34.6	m. ° ' -57 11	9.4	9.4	Ao	3	..	40090b
2	3603	34.3	-57 44	9.7	9.7	Ao	2	..	40090b	52	3613	34.6	-57 56	9.7	9.7	B ₉	2	..	40090b
3	2079	34.3	-61 1	9.0	10.0	Ko	2	..	21154b	53	2361	34.6	-59 36	8.9	10.0	K ₂	1	..	21154b
4	1075	34.3	-71 11	7.6	8.6	Ko	8	..	40298b	54	583	34.7	+68 58	5.90	6.90	Ko	7	0,6-	37346i
5	622	34.3	-78 6	4.10	6.6	Ma	..	R	28,204	55	1403	34.7	+54 51	9.11	9.61	F8	2	..	38665i
6	2111	34.4	+40 49	8.4	9.4	Ko	1	..	38640i	56	1914	34.7	+28 32	9.0	9.4	F ₅	1	..	38208i
7	2100	34.4	+36 2	8.8	9.8	Ko	3	..	37582i	57	3228	34.7	-12 28	7.27	7.33	A ₂	..	0,8	56,87
8	2390	34.4	+ 8 20	9.3	9.9	Go	2	..	13394b	58	3233	34.7	-20 19	8.58	9.2	Go	3	..	13324b
9	3203	34.4	-17 55	8.7	9.7	Ko	2	..	13136b	59	2973	34.7	-22 15	9.2	9.2	F8	2	..	13324b
10	8168	34.4	-25 20	7.36	7.9	F ₅	8	..	22920b	60	8172	34.7	-25 47	9.0	9.0	Fo	6	..	22920b
11	6870	34.4	-34 14	9.1	9.5	Ko	1	..	13048b	61	8054	34.7	-26 18	9.8	10.5	Go	1	..	22920b
12	6389	34.4	-42 53	8.4	8.5	Ao	2	..	43044b	62	7597	34.7	-27 26	8.6	8.7	F ₅	4	..	22920b
13	3608	34.4	-57 46	8.4	8.5	A ₃	7	..	21154b	63	6565	34.7	-36 10	6.83	7.9	G ₅	8	..	41389b
14	2356	34.4	-60 2	8.54	9.4	Ma	4	R	21154b	64	6692	34.7	-44 20	8.5	8.7	Ao	5	..	13780b
15	1234	34.4	-68 51	8.3	8.3	Ao	7	..	40297b	65	6300	34.7	-46 9	8.5	7.9	Ao	5	..	13780b
16	1316	34.4	-69 55	8.8	8.8	Ao	4	..	40297b	66	5812	34.7	-48 38	9.8	10.4	K ₂	1	..	38573b
17	1145	34.4	-70 19	8.7	9.5	G ₅	3	5,2	39946b	67	3900	34.7	-54 23	9.7	9.7	A	1	..	40250b
18	1076	34.4	-71 50	9.2	10.0	G ₅	3	..	40298b	68	3665	34.7	-55 13	9.2	9.7	F8	2	..	40250b
19	359	34.5	+77 57	7.58	7.56	B ₉	6	0,8	37465i	69	3604	34.7	-57 3	8.5	9.7	K ₂	2	..	40090b
20	1279	34.5	+59 52	8.26	8.82	Go	3	..	37716i	70	2139	34.8	+42 40	7.8	8.1	F ₂	6	..	38640i
21	2370	34.5	+38 54	8.0	9.0	Ko	5	..	37582i	71	1916	34.8	+28 2	6.93	6.99	A ₂	8	..	38208i
22	2255	34.5	+17 6	8.4	9.5	K ₂	1	..	38647i	72	2346	34.8	+ 1 48	8.5	9.7	K ₅	2	..	13378b
23	2382	34.5	+ 9 22	7.9	8.3	F ₅	5	..	38228i	73	2975	34.8	- 9 11	8.8	9.6	G ₅	3	..	13379b
24	2419	34.5	- 1 50	8.9	9.9	Ko	2	..	19393b	74	6566	34.8	-36 55	7.62	7.9	Ao	7	..	41389b
25	9437	34.5	-23 56	8.4	10.1	K ₅	1	..	13324b	75	6021	34.8	-41 37	9.5	9.9	F ₅	1	..	15319b
26	8053	34.5	-26 9	9.0	10.5	K ₅	1	..	22920b	76	6065	34.8	-48 0	10.2	10.2	F8	2	..	38573b
27	7137	34.5	-33 25	8.06	8.8	F ₅	5	..	13048b	77	5312	34.8	-50 45	9.0	9.6	Ko	3	E	37600b
28	6390	34.5	-42 14	6.22	7.8	F ₅	7	..	43044b	78	4927	34.8	-51 56	10.2	9.5	B ₅	2	..	40250b
29	5805	34.5	-49 7	9.8	9.6	Ao	2	..	13780b	79	3770	34.8	-53 5	8.0	8.3	B ₈	7	..	40250b
30	5423	34.5	-49 14	8.0	9.5	K ₅	2	..	13780b	80	4027	34.8	-53 39	9.4	9.4	B ₉	2	R	40097b
31	5306	34.5	-50 26	8.5	9.2	Ko	3	..	13780b	81	3903	34.8	-55 8	9.16	8.2	Ao	6	..	40250b
32	3762	34.5	-52 50	9.1	9.5	A ₃	3	..	40250b	82	3605	34.8	-57 6	8.5	9.4	Go	4	..	40090b
33	3894	34.5	-54 38	9.1	9.1	B ₉	3	..	40250b	83	3621	34.8	-57 31	9.1	9.4	B ₈	2	..	40090b
34	3597	34.5	-56 54	10.0	10.3	Fo	6	..	40090b	84	2457	34.8	-58 36	8.8	8.5	B ₉	5	..	40090b
35	1679	34.5	-62 32	8.1	8.2	A ₂	7	2,6	31521b	85	1374	34.8	-64 32	6.6	6.6	B ₈	8	..	38834b
36	2113	34.6	+26 43	9.2	10.2	Ko	2	..	38208i	86	1320	34.8	-70 7	9.2	9.2	Ao	2	..	40297b
37	2363	34.6	+19 46	8.25	8.75	F8	3	0,2	38647i	87	1388	34.9	+54 9	8.1	9.1	Ko	3	..	37717i
38	2386	34.6	+18 35	7.5	7.8	Fo	7	..	38647i	88	2140	34.9	+42 3	7.90	8.90	Ko	3	..	38640i
39	2260	34.6	+10 51	9.5	10.5	Ko	1	..	38228i	89	2101	34.9	+36 14	8.14	9.14	Ko	5	..	37582i
40	3083	34.6	- 7 26	7.7	8.9	K ₅	3	..	13379b	90	2687	34.9	+ 0 22	8.1	8.2	A ₂	3	..	37731i
41	3115	34.6	- 9 30	8.8	9.8	Ko	3	..	13379b	91	3122	34.9	-22 0	7.38	8.6	Ko	7	..	13324b
42	3183	34.6	-13 37	9.1	9.7	Go	2	..	19017b	92	8057	34.9	-26 45	9.8	10.2	Ko	1	..	22920b
43	3099	34.6	-16 13	9.2	9.2	Ao	3	..	13136b	93	7521	34.9	-32 18	7.6	9.4	Ko	2	..	13048b
44	8502	34.6	-29 21	10.0	10.3	K ₅	2	..	22920b	94	6301	34.9	-47 7	9.8	9.4	Ao	3	..	38573b
45	8416	34.6	-31 29	9.3	10.0	A ₂	1	..	13048b	95	5813	34.9	-48 27	10.5	9.8	B ₉	2	..	38573b
46	3764	34.6	-52 15	7.4	8.0	Ao	7	..	40250b	96	5814	34.9	-48 48	9.1	9.8	Ko	3	..	38573b
47	4019	34.6	-53 25	9.0	10.0	Ko	1	..	40250b	97	2460	34.9	-58 40	4.73	6.9	K ₅	..	0,4 R	28,204
48	4021	34.6	-53 37	8.5	8.8	B ₃	4	..	40250b	98	2460	34.9	-58 40	6.7	6.7	A	..	2,6	38749b
49	3897	34.6	-54 56	8.6	9.4	G ₅	2	..	40250b	99	2462	34.9	-58 45	6.7	6.7	Ao	5	..	40090b
50	3899	34.6	-54 58	8.76	8.8	A ₂	6	..	40250b	100	1982	35.0	+49 6	7.7	7.8	A ₂	2	..	38308i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

92400

10^h 35^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2181	35.0	+10 20	8.9	9.5	Go	2	..	38228i	51	2378	35.3	-59 49	8.8	8.5	B8	5	R	21154b
2	2974	35.0	-23 10	9.3	9.5	F2	1	..	13324b	52	1766	35.3	-61 46	9.1	9.1	B9	2	I,3	31521b
3	6699	35.0	-37 18	7.98	8.9	G5	4	..	41389b	53	998	35.3	-73 4	9.5	9.9	F5	3	..	40298b
4	5816	35.0	-49 0	10.0	10.3	F2	2	..	38573b	54	584	35.4	+69 8	8.08	8.16	A3	3	0,3-	37346i
5	3909	35.0	-54 36	7.2	7.3	B8	8	..	40250b	55	2049	35.4	+30 44	8.3	8.8	F8	4	E	37582i
6	2461	35.0	-58 12	9.1	8.9	Ao	3	..	40090b	56	2116	35.4	+26 13	7.73	8.73	Ko	4	..	38208i
7	420	35.0	-82 51	9.1	10.1	Ko	1	..	13465b	57	2242	35.4	+12 36	7.9	9.0	K2	3	..	38228i
8	1427	35.1	+53 30	7.10	7.38	Fo	7	..	37717i	58	2335	35.4	+ 6 0	9.0	9.8	G5	2	..	13394b
9	1653	35.1	+46 2	9.0	10.1	K2	1	..	38672i	59	3185	35.4	-13 43	9.3	10.3	K	1	..	19017b
10	2236	35.1	+15 28	8.1	8.2	A2	5	..	38228i	60	2995	35.4	-18 16	8.8	9.9	K2	1	..	13136b
11	2391	35.1	+ 8 16	10.0	10.8	G5	2	..	13394b	61	6025	35.4	-41 54	8.0	8.8	Ko	4	..	15319b
12	2343	35.1	+ 7 9	10.0	10.4	F5	3	..	13394b	62	5817	35.4	-48 31	9.6	10.6	K5	1	..	38573b
13	2374	35.1	+ 5 3	8.4	9.4	Ko	2	..	13394b	63	3916	35.4	-55 5	6.62	6.3	B8	..	I,9-	28,204
14	2362	35.1	- 0 23	9.20	9.76	Go	3	..	19393b	64	3682	35.4	-55 28	7.2	6.9	B3	..	5,4 R	28,204
15	3101	35.1	-15 48	8.9	9.7	G5	1	..	13136b	65	2112	35.4	-61 8	8.9	10.0	Ao	3	..	21154b
16	3104	35.1	-16 58	9.6	9.9	Fo	2	..	13136b	66	1769	35.4	-61 16	7.3	9.1	Ko	7	..	21154b
17	8060	35.1	-26 57	9.8	10.2	F2	2	..	22920b	67	1534	35.4	-63 59	6.7	6.7	B9	6	..	38834b
18	6554	35.1	-39 27	8.6	9.0	K2	3	..	41389b	68	1245	35.4	-68 45	7.9	7.9	Ao	8	..	40297b
19	6076	35.1	-47 42	11.5	10.4	A2	1	..	38573b	69	3233	35.5	-12 45	8.3	8.7	F5	5	..	19017b
20	3627	35.1	-57 16	8.3	9.1	B2	3	..	40090b	70	8511	35.5	-29 19	9.8	10.5	K	2	..	22920b
21	2471	35.1	-58 45	7.9	8.0	B9	2	..	43205b	71	8512	35.5	-29 20	9.6	10.5	G	2	..	22920b
22	1764	35.1	-62 2	9.7	9.7	B9	3	I,2	21154b	72	6200	35.5	-40 33	9.5	9.1	G5	2	..	41389b
23	564	35.1	-78 16	9.1	9.5	F5	5	..	21453b	73	6316	35.5	-46 12	9.6	9.6	Ao	3	..	38573b
24	678	35.2	+66 14	5.12	6.12	Ko	10	..	37346i	74	5322	35.5	-50 36	9.2	9.5	Fo	2	..	13780b
25	2367	35.2	+ 4 34	8.40	9.58	K5	3	..	13394b	75	3784	35.5	-52 58	9.3	9.3	B9	3	..	40250b
26	2976	35.2	- 8 31	7.7	8.8	K2	4	..	13379b	76	3618	35.5	-56 48	9.1	9.7	Ko	2	..	40090b
27	3230	35.2	-12 53	8.8	8.9	A2	3	..	19017b	77	3637	35.5	-57 37	9.1	9.1	Ao	3	..	21154b
28	2976	35.2	-22 56	9.6	9.5	Fo	1	..	13324b	78	1383	35.5	-64 27	7.7	7.7	Ao	7	..	38834b
29	8508	35.2	-29 17	9.8	10.0	Ao	3	..	22920b	79	1323	35.5	-69 48	7.4	7.4	B8	7	..	40297b
30	7529	35.2	-33 6	7.41	8.5	Ko	5	..	13048b	80	539	35.5	-79 47	8.4	8.8	F5	3	..	21530b
31	6630	35.2	-36 0	9.2	10.4	Ko	1	..	41389b	81	2172	35.6	+35 13	8.8	10.2	Ma	3	..	37582i
32	6572	35.2	-36 55	7.59	8.9	K2	4	..	41389b	82	2078	35.6	+29 5	8.4	9.4	Ko	2	E	38208i
33	6703	35.2	-38 1	9.5	9.5	Ko	1	..	41389b	83	2364	35.6	+19 23	8.4	9.5	K2	3	..	38647i
34	5318	35.2	-50 47	9.0	9.2	A5	3	..	13780b	84	2422	35.6	- 1 40	9.3	10.1	G5	2	..	19393b
35	3912	35.2	-54 21	7.6	9.1	K5	4	..	40250b	85	3235	35.6	-12 59	8.9	10.0	K2	3	..	19017b
36	2474	35.2	-58 18	6.09	8.5	Mb	..	5,3	28,204	86	6085	35.6	-47 50	10.0	10.2	F5	2	..	38573b
37	1690	35.2	-62 14	9.4	9.4	Ao	2	..	38834b	87	5820	35.6	-48 29	8.6	8.6	B9	7	..	13780b
38	997	35.2	-73 4	9.3	9.7	F5	3	..	40298b	88	5326	35.6	-50 10	9.8	9.8	F2	2	..	38573b
39	3120	35.3	- 6 10	8.1	9.2	K2	4	..	13379b	89	5325	35.6	-50 32	9.4	9.5	G5	1	..	13780b
40	3103	35.3	-15 51	8.3	9.1	G5	5	..	13136b	90	2116	35.6	-60 38	9.1	10.0	Ko	4	..	21154b
41	2977	35.3	-23 6	8.1	8.2	Fo	7	..	13324b	91	1695	35.6	-62 14	8.7	8.8	A2	3	2,4	31521b
42	8348	35.3	-28 47	9.5	9.9	A2	4	..	22920b	92	1539	35.6	-63 9	8.7	8.7	Ao	2	..	38834b
43	7526	35.3	-32 13	8.8	8.8	Ao	2	..	13048b	93	2183	35.7	+ 9 47	9.7	10.3	G	1	..	13394b
44	6573	35.3	-37 8	10.1	9.8	A5	1	..	41389b	94	2468	35.7	+ 1 2	8.7	9.0	F2	4	..	13378b
45	6403	35.3	-43 2	8.2	9.1	Mb	2	..	43044b	95	2363	35.7	- 0 21	9.5	9.9	F5	3	..	19393b
46	5432	35.3	-49 28	9.8	9.8	F8	2	..	38573b	96	2997	35.7	-19 4	8.9	9.4	F8	1	..	13136b
47	4037	35.3	-53 14	9.4	9.4	B8	2	..	40250b	97	3238	35.7	-21 3	9.1	9.5	Go	1	..	13324b
48	3914	35.3	-54 17	9.7	9.7	Ao	2	..	40250b	98	6205	35.7	-40 13	8.54	9.0	K2	2	..	41389b
49	3915	35.3	-55 5	4.37	4.93	Go	..	0, R	28,204	99	6407	35.7	-42 34	9.2	9.0	A2	3	..	15319b
50	3677	35.3	-55 17	9.3	9.4	A2	3	..	40250b	100	6464	35.7	-43 42	9.6	9.9	G5	1	..	15319b

THE HENRY DRAPER CATALOGUE.

92500

10^h 35^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5822	35.7	-48 46	7.0	8.9	K5	6	..	13780b	51	5827	36.0	-48 58	10.5	10.3	G5	1	..	38573b
2	3920	35.7	-54 15	10.0	10.0	Ao	1	..	40250b	52	3695	36.0	-55 46	7.9	8.5	B8	6	..	40250b
3	3688	35.7	-56 0	9.4	9.4	Ao	3	..	40250b	53	2504	36.0	-58 28	9.1	8.8	B9	5	..	21154b
4	3622	35.7	-56 57	8.5	8.2	B2	5	..	40090b	54	2126	36.0	-60 24	..	9.1	Oe5	2	..	21154b
5	2122	35.7	-60 28	8.1	6.8	B3	..	2,4	28,204	55	2125	36.0	-60 46	8.9	9.1	B8	5	..	21154b
6	2120	35.7	-60 34	7.9	9.4	G5	4	..	21154b	56	1357	36.0	-66 9	8.0	8.0	Ao	5	..	38834b
7	1246	35.7	-69 1	9.1	9.4	Fo	2	..	40297b	57	1917	36.1	+27 51	8.2	9.4	K5	3	..	38208i
8	1084	35.7	-71 37	8.9	10.0	K2	2	..	40298b	58	2223	36.1	+21 5	7.8	7.9	A2	5	..	38208i
9	472	35.7	-80 17	8.9	10.0	K2	1	..	21530b	59	2693	36.1	+ 0 16	7.40	7.68	Fo	7	..	37731i
10	2110	35.8	+37 36	9.6	10.2	Go	2	..	37582i	60	2976	36.1	- 3 15	8.9	9.3	F5	4	..	19393b
11	2259	35.8	+17 24	7.87	7.93	A2	8	..	38647i	61	2980	36.1	-22 17	8.9	9.5	G5	2	..	13324b
12	2337	35.8	+ 6 20	9.0	9.4	F5	3	..	13394b	62	8179	36.1	-25 57	9.8	10.3	F8	2	R	22920b
13	2921	35.8	- 5 2	9.3	9.9	G	2	..	19393b	63	8070	36.1	-26 16	8.2	9.0	G5	6	..	22920b
14	3187	35.8	-13 41	9.1	9.4	Fo	3	..	19017b	64	8430	36.1	-31 25	8.2	8.8	F8	3	..	13048b
15	6650	35.8	-38 18	9.4	10.1	K	1	..	41389b	65	6572	36.1	-39 9	9.5	9.4	F8	1	..	41389b
16	6087	35.8	-47 20	9.2	10.8	K5	1	..	38573b	66	2129	36.1	-60 29	8.9	8.8	Ao	6	..	21154b
17	6086	35.8	-47 33	9.2	9.1	Ao	3	..	13780b	67	2128	36.1	-60 54	9.1	10.0	Ao	2	..	21154b
18	4938	35.8	-51 46	7.0	7.9	Ao	8	..	40250b	68	1552	36.1	-63 10	8.4	8.7	Fo	2	..	38834b
19	3790	35.8	-52 54	9.0	9.0	Ao	3	..	40250b	69	1395	36.1	-64 10	9.0	9.0	Ao	1	..	38834b
20	4046	35.8	-53 14	8.5	8.5	Ao	5	..	40250b	70	1394	36.1	-64 34	8.6	9.0	F5	1	..	38834b
21	1772	35.8	-61 45	8.2	8.9	F8	3	0,3-	38834b	71	1359	36.1	-66 39	7.9	8.9	Ko	5	..	38834b
22	1248	35.8	-68 56	8.8	8.8	Ao	3	..	40297b	72	1758	36.2	+50 6	9.1	9.2	A3	2	..	38672i
23	586	35.9	+69 36	5.23	6.23	Ko	8	0,8-	37554i	73	1655	36.2	+46 22	9.6	9.7	A2	1	..	38672i
24	807	35.9	+64 30	8.5	9.0	F8	3	..	37346i	74	2104	36.2	+36 16	9.3	9.9	Go	2	..	37582i
25	918	35.9	+63 34	8.5	9.1	Go	3	..	37716i	75	1918	36.2	+28 0	9.6	10.6	Ko	1	..	38711i
26	2260	35.9	+24 30	9.0	9.6	Go	1	..	38208i	76	2388	36.2	+ 9 6	8.1	9.5	Ma	5	5,3	13394b
27	3161	35.9	-14 42	8.1	9.2	K2	4	..	19017b	77	3188	36.2	-13 50	7.9	8.2	F2	6	..	19017b
28	8516	35.9	-29 13	8.4	9.5	Ko	4	..	22920b	78	8519	36.2	-29 13	8.2	9.4	K2	4	..	22920b
29	6568	35.9	-40 5	10.3	10.1	G5	1	..	41389b	79	6645	36.2	-36 4	8.8	9.8	G5	2	..	41389b
30	6708	35.9	-44 32	7.9	8.1	A2	4	0,7	43044b	80	6292	36.2	-45 34	8.2	8.5	Ao	6	..	13780b
31	6324	35.9	-46 27	9.1	9.0	Ao	5	..	13780b	81	5446	36.2	-49 13	9.6	9.5	Ao	3	..	38573b
32	3792	35.9	-52 56	9.0	8.9	Fo	3	..	40250b	82	5445	36.2	-49 35	8.6	9.2	A2	5	..	13780b
33	3693	35.9	-55 38	9.7	9.7	Ao	2	..	40250b	83	3930	36.2	-54 53	8.8	9.1	Ao	3	..	40250b
34	2123	35.9	-61 4	8.7	9.2	A2	5	..	21154b	84	3701	36.2	-56 4	8.9	8.8	B	4	..	40250b
35	1544	35.9	-63 16	7.7	7.8	A5	4	..	38834b	85	3635	36.2	-56 23	8.8	8.8	B8	4	..	40090b
36	1542	35.9	-63 36	6.60	6.4	B9	9	1,8	31521b	86	2055	36.3	+30 18	9.2	9.2	Ao	2	..	38711i
37	567	35.9	-78 28	9.2	10.2	Ko	2	..	21453b	87	2281	36.3	+14 30	7.9	9.3	Ma	2	..	38228i
38	679	36.0	+66 33	8.7	9.3	Go	3	..	37346i	88	2364	36.3	- 1 13	6.40	7.40	Ko	8	..	37731i
39	1799	36.0	+47 9	8.3	8.4	A3	3	..	38308i	89	6646	36.3	-35 13	6.51	7.5	G5	9	..	41389b
40	1923	36.0	+26 55	8.9	9.4	F8	2	..	38208i	90	6718	36.3	-37 19	7.7	8.7	A5	5	..	41389b
41	2222	36.0	+20 52	8.9	9.7	G5	1	..	38208i	91	6470	36.3	-43 14	7.8	8.2	A2	3	..	43044b
42	2981	36.0	- 8 19	9.1	9.2	A2	4	..	13379b	92	6471	36.3	-43 49	10.2	9.9	Ao	2	..	15319b
43	3118	36.0	- 9 34	9.3	9.9	Go	2	..	13417b	93	6295	36.3	-45 55	8.5	8.8	Ao	4	..	13780b
44	3112	36.0	-10 27	8.5	8.6	A3	4	..	19017b	94	5830	36.3	-48 28	8.6	10.1	K5	1	..	13780b
45	2929	36.0	-11 41	8.7	9.2	F8	4	..	19017b	95	5833	36.3	-49 0	9.2	10.6	K5	1	..	38573b
46	3236	36.0	-12 34	9.3	10.1	G5	3	..	13409b	96	5447	36.3	-49 28	9.4	9.6	A2	3	..	13780b
47	3237	36.0	-12 37	8.1	8.6	F8	5	..	19017b	97	4945	36.3	-51 41	9.4	10.1	Ko	2	E	37600b
48	3106	36.0	-15 15	8.96	9.38	F5	3	..	19017b	98	4946	36.3	-51 50	9.4	10.3	Ko	2	E	37600b
49	6641	36.0	-35 29	8.8	9.2	Ao	4	..	41389b	99	2135	36.3	-60 17	9.4	9.7	Fo	3	..	21154b
50	6325	36.0	-46 39	7.3	7.5	B8	8	..	13780b	100	1276	36.4	+58 28	9.0	9.6	Go	2	..	37716i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

92600

10^h 36^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1404	36.4	+55 42	9.6	10.4	G5	1	..	38665i	51	3210	36.8	- 7 3	9.6	10.1	F8	2	..	13417b
2	2173	36.4	+34 48	9.12	9.68	Go	2	..	37582i	52	3191	36.8	-14 13	9.6	10.6	K	2	..	19017b
3	2120	36.4	+26 12	8.8	9.8	Ko	2	..	38208i	53	3164	36.8	-15 9	8.16	9.23	K2	3	..	19017b
4	2268	36.4	+11 16	7.6	7.7	A2	6	..	38228i	54	2985	36.8	-22 53	9.3	9.6	K2	1	..	13324b
5	5332	36.4	-50 28	8.8	9.8	Ko	1	..	13780b	55	8077	36.8	-26 34	9.0	9.6	G5	3	..	22920b
6	3704	36.4	-55 43	9.1	9.7	Ko	1	..	40250b	56	8525	36.8	-30 1	8.50	8.5	Ao	4	..	13048b
7	2404	36.4	-59 17	8.4	8.2	B8	7	..	40090b	57	7170	36.8	-33 11	8.02	8.8	G5	4	..	13048b
8	2409	36.4	-59 57	8.9	8.9	A	3	R	40090b	58	R	36.8	-41 53	9.3	9.6	F2	2	..	15319b
9	1886	36.5	+48 31	8.5	9.7	K5	1	..	38308i	59	5836	36.8	-48 28	8.6	10.1	K5	1	..	13780b
10	2019	36.5	+33 40	9.2	9.5	Fo	3	..	37582i	60	5835	36.8	-48 53	9.8	10.6	K5	1	..	38573b
11	1925	36.5	+27 33	9.2	9.8	G	1	..	38208i	61	3807	36.8	-52 45	8.9	8.9	Ao	5	..	40250b
12	2258	36.5	+22 42	8.4	8.4	Ao	3	..	38208i	62	2524	36.8	-59 1	8.4	8.9	F2	6	..	40091b
13	2345	36.5	+ 7 34	8.9	9.5	Go	4	..	13394b	63	1558	36.8	-63 29	8.0	9.0	Ko	2	..	38834b
14	2694	36.5	+ 0 15	8.1	8.4	Fo	3	..	37731i	64	1403	36.8	-64 35	5.82	5.82	Aop	..	1,9 R	28,204
15	4053	36.5	-53 11	8.7	9.1	F2	4	..	40250b	65	721	36.8	-74 38	6.7	6.8	A2	8	..	40298b
16	4054	36.5	-53 38	9.7	9.7	Ao	2	..	40250b	66	796	36.9	+65 26	9.7	10.0	Fo	2	..	37346i
17	2411	36.5	-59 26	8.6	8.6	F2	4	..	40090b	67	1390	36.9	+54 27	9.1	10.1	Ko	1	..	38665i
18	1780	36.5	-61 15	9.1	9.7	Ko	3	..	21154b	68	1621	36.9	+51 20	7.20	7.28	A3	6	R	38672i
19	2172	36.6	+38 33	8.2	8.8	Go	4	..	37582i	69	2106	36.9	+35 54	9.6	10.4	G5	1	..	37582i
20	2066	36.6	+32 14	6.33	7.68	Ma	8	..	37582i	70	2395	36.9	+ 8 2	8.9	9.7	G5	4	..	13394b
21	2365	36.6	+18 56	8.1	9.1	Ko	2	..	38647i	71	2977	36.9	- 3 33	8.3	8.6	F2	7	..	19393b
22	2284	36.6	+14 17	8.5	8.6	A3	2	..	38228i	72	2925	36.9	- 4 16	9.3	10.5	K5	1	..	19393b
23	2378	36.6	+ 4 49	8.66	9.66	Ko	4	..	13394b	73	2926	36.9	- 4 41	10.0	10.6	Go	3	..	19393b
24	3114	36.6	-10 54	9.3	9.3	Ao	3	..	19017b	74	3124	36.9	- 6 3	7.6	8.1	F8	8	..	13379b
25	7615	36.6	-27 36	8.2	9.0	A2	6	..	22920b	75	3094	36.9	- 7 32	7.48	8.55	K2	5	..	13379b
26	6099	36.6	-47 30	7.2	8.5	K2p	5	R	13780b	76	3242	36.9	-12 52	10.2	10.6	F5	1	..	19017b
27	3803	36.6	-52 52	8.9	9.0	A5	3	..	40250b	77	3193	36.9	-14 12	9.6	10.6	Ko	3	..	19017b
28	3709	36.6	-55 47	8.5	9.7	K5	1	..	40250b	78	6656	36.9	-35 13	6.89	7.5	Ao	10	..	41389b
29	3643	36.6	-56 11	9.0	9.1	A2	3	..	40090b	79	6421	36.9	-42 46	9.1	9.0	Ao	4	..	15319b
30	2519	36.6	-58 26	8.7	8.8	B8	4	..	21154b	80	6107	36.9	-47 31	9.0	9.4	F5	4	..	38573b
31	2142	36.6	-60 16	8.7	9.7	Ko	2	..	21154b	81	4956	36.9	-51 34	8.8	10.1	Mb	2	E	37600b
32	2141	36.6	-60 40	8.2	9.7	K5	3	..	21154b	82	758	36.9	-73 58	5.98	7.6	K5	..	3,8	56,128
33	1142	36.7	+62 44	7.92	8.99	K2	5	..	37716i	83	245	36.9	-85 34	6.74	6.9	Ao	8	0,9	11010b
34	1278	36.7	+58 29	8.7	9.5	G5	2	..	37716i	84	1803	37.0	+47 13	8.9	9.7	G5	1	..	38308i
35	1472	36.7	+56 25	7.65	8.83	K5	4	..	37717i	85	2292	37.0	+12 56	8.4	9.4	Ko	3	..	38228i
36	2390	36.7	+ 8 56	8.5	8.8	F2	5	..	13394b	86	2269	37.0	+10 53	7.29	8.47	K5	3	..	38228i
37	8438	36.7	-31 19	8.3	9.1	Go	3	..	13048b	87	2403	37.0	+ 3 20	8.5	9.5	Ko	1	..	37731i
38	6216	36.7	-40 13	8.84	9.0	A5	3	..	41389b	88	2365	37.0	- 1 1	10.0	10.3	Fo	1	..	19393b
39	6101	36.7	-47 38	9.4	10.2	K5	2	..	38573b	89	8078	37.0	-27 7	9.8	10.2	A5	3	..	22920b
40	4951	36.7	-51 17	9.1	9.8	Go	3	E	37600b	90	6730	37.0	-37 52	9.7	9.8	K	1	..	41389b
41	4953	36.7	-51 51	9.6	9.8	Fo	2	..	40250b	91	3720	37.0	-55 40	8.8	10.0	K5	1	..	40250b
42	3805	36.7	-52 51	8.1	8.6	K2	4	..	40250b	92	3663	37.0	-57 25	7.2	8.0	Go	6	R	40090b
43	3647	36.7	-56 40	8.6	8.8	G5	4	..	40090b	93	3662	37.0	-57 25	7.2	8.0	A5	6	R	40090b
44	2416	36.7	-59 16	9.0	8.6	B8	3	..	40090b	94	3662	37.0	-57 40	10.0	10.0	A	1	..	40090b
45	1004	36.7	-73 3	7.9	7.9	Ao	5	..	40298b	95	682	37.0	-76 3	9.3	10.3	Ko	1	..	21453b
46	2112	36.8	+37 3	8.6	9.2	Go	4	..	37582i	96	2390	37.1	+18 46	7.17	8.17	Ko	6	..	38647i
47	2083	36.8	+29 32	8.4	8.9	F8	2	E	38208i	97	8190	37.1	-25 20	9.3	9.3	K2	3	..	22920b
48	2263	36.8	+16 48	8.6	9.4	G5	2	..	38647i	98	8191	37.1	-25 32	7.30	7.7	A2	9	..	22920b
49	2285	36.8	+13 59	8.5	9.5	Ko	2	..	38228i	99	8634	37.1	-30 14	8.05	8.5	Ao	6	..	13048b
50	2425	36.8	- 1 32	10.0	10.0	Ao	2	..	19393b	100	6109	37.1	-47 33	11.5	10.2	A3	1	..	38573b

THE HENRY DRAPER CATALOGUE.

92700

10^h 37^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3723	37.1	-55 24	8.9	9.1	B8	3	..	4025ob	51	3125	37.5	-5 18	9.00	9.28	Fo	3	..	13379b
2	3653	37.1	-57 5	8.5	8.5	B2	6	..	4009ob	52	3126	37.5	-6 0	9.1	9.5	F5	3	..	13379b
3	2533	37.1	-58 22	8.6	9.4	Ko	2	..	21154b	53	3097	37.5	-8 12	6.96	7.96	Ko	7	..	13379b
4	2150	37.1	-61 5	8.6	9.1	B8	4	R	21154b	54	9250	37.5	-24 26	8.2	9.9	K5	3	..	2292ob
5	2141	37.2	+42 25	8.7	9.7	Ko	1	..	3864oi	55	6231	37.5	-40 10	7.64	8.1	F8	7	..	41389b
6	2471	37.2	+1 23	7.62	8.69	K2	4	..	37731i	56	4064	37.5	-53 45	8.9	9.1	B9	4	..	4025ob
7	3165	37.2	-14 51	8.9	10.1	K5	1	..	19017b	57	3729	37.5	-55 33	7.0	7.5	Ao	..	0.5-	28,204
8	3111	37.2	-15 34	8.5	9.9	Ma	3	..	19017b	58	3663	37.5	-57 0	9.1	9.4	A3	3	..	4009ob
9	8079	37.2	-26 58	10.5	10.5	F2	2	..	2292ob	59	3674	37.5	-57 9	9.9	9.7	B	2	..	4009ob
10	5459	37.2	-49 31	10.5	10.3	Ao	2	..	38573b	60	3675	37.5	-57 15	9.4	10.0	G	1	..	4009ob
11	3727	37.2	-55 25	9.4	9.4	Ao	2	..	4025ob	61	3677	37.5	-57 35	9.5	9.5	Ao	3	0.2	4009ob
12	3657	37.2	-56 44	8.1	7.6	B3	5	..	4009ob	62	570	37.5	-79 0	7.7	7.8	A5	9	..	21453b
13	3656	37.2	-56 49	8.9	8.8	Ao	4	..	4009ob	63	587	37.6	+69 18	var.	var.	Md	5	R	37346i
14	3671	37.2	-58 3	..	9.4	Oe5	2	..	21154b	64	1857	37.6	+45 28	8.8	8.9	A3	3	..	3864oi
15	1408	37.2	-64 8	6.7	6.7	B9	7	..	38834b	65	2361	37.6	+40 43	8.6	9.4	G5	1	..	3864oi
16	2188	37.3	+10 33	8.9	9.4	F8	2	..	13394b	66	2176	37.6	+35 17	8.7	9.8	K2	2	..	37582i
17	2392	37.3	+8 52	8.7	8.8	A2	3	1.7	38228i	67	2153	37.6	+33 53	8.8	9.8	Ko	3	..	37582i
18	2348	37.3	+7 11	9.3	9.9	Go	2	..	13394b	68	2060	37.6	+29 54	7.81	8.15	F2	5	0.6	38711i
19	3196	37.3	-13 16	6.74	7.30	Go	5	0. R	11062b	69	1927	37.6	+26 51	5.55	5.61	A2	10	..	38208i
20	3108	37.3	-16 48	8.8	9.6	G5	2	..	13136b	70	3197	37.6	-13 27	6.44	7.51	K2	8	..	19017b
21	6482	37.3	-43 38	9.2	9.7	Ko	2	..	15319b	71	3080	37.6	-20 4	7.63	8.3	A2	7	..	13136b
22	3819	37.3	-52 56	8.2	8.1	A2	7	..	4025ob	72	8083	37.6	-26 56	8.6	9.9	K5	3	..	2292ob
23	4059	37.3	-53 55	10.2	10.2	Ao	3	..	37600b	73	7177	37.6	-33 12	7.9	10.0	K2	2	..	13048b
24	3672	37.3	-57 15	8.4	9.4	Ao	3	..	4009ob	74	6674	37.6	-38 52	8.8	8.5	Ao	5	..	41389b
25	2538	37.3	-58 44	8.2	8.2	B8	5	..	4009ob	75	6672	37.6	-39 4	8.8	8.5	Fo	4	..	41389b
26	1006	37.3	-72 40	8.1	8.4	F2	5	..	40298b	76	6312	37.6	-45 52	10.5	9.6	Ao	2	..	38573b
27	723	37.3	-75 7	8.6	9.6	Ko	2	..	40298b	77	5463	37.6	-49 43	9.0	9.3	B9	5	..	1378ob
28	1286	37.4	+57 43	5.79	5.77	B9	9	1.10	37716i	78	3828	37.6	-52 44	9.5	9.5	Ao	3	..	4025ob
29	2084	37.4	+29 20	8.2	9.3	K2	1	..	38208i	79	3944	37.6	-54 9	9.3	9.4	A2	1	..	4025ob
30	2286	37.4	+25 40	9.2	10.2	K	1	..	38208i	80	3945	37.6	-54 18	9.1	9.1	Ao	2	..	4025ob
31	2265	37.4	+17 40	8.5	9.5	Ko	2	..	38647i	81	3731	37.6	-55 34	8.5	8.2	Ao	4	..	4025ob
32	2428	37.4	-1 35	10.3	11.1	G5	2	..	19393b	82	3665	37.6	-57 0	9.5	9.4	B5	3	..	4009ob
33	3109	37.4	-16 44	9.3	10.3	K	1	..	13136b	83	1573	37.6	-63 57	6.5	6.4	B5	6	..	38834b
34	6906	37.4	-34 33	8.8	9.5	Ko	1	..	13048b	84	1457	37.6	-65 34	7.8	8.3	F8	5	..	38834b
35	6664	37.4	-35 54	8.1	9.5	K5	1	..	41389b	85	630	37.6	-77 26	9.2	10.6	Mc	..	..	M
36	6308	37.4	-45 15	7.48	8.2	F5	3	3.7	43044b	86	1889	37.7	+48 44	7.9	8.7	G5	4	..	38308i
37	4061	37.4	-53 10	9.4	9.5	A2	2	..	4025ob	87	1657	37.7	+46 44	5.28	5.56	Fo	..	0.10	56,87
38	4060	37.4	-53 35	8.4	8.3	B9	7	..	4025ob	88	2431	37.7	-1 39	7.18	7.96	G5	6	5.4	19393b
39	2540	37.4	-58 38	8.5	8.6	B8	4	..	4009ob	89	3217	37.7	-18 0	8.7	9.7	Ko	2	..	1313ob
40	2450	37.4	-59 9	6.48	6.3	Ocp	..	R	28,204	90	7180	37.7	-33 11	9.2	9.7	Ko	3	..	13048b
41	2447	37.4	-59 27	7.6	7.3	B3	..	5.3	28,204	91	6668	37.7	-35 41	8.3	9.2	G5	3	..	41389b
42	2449	37.4	-59 52	9.0	9.5	Ko	4	..	4009ob	92	6676	37.7	-38 9	9.7	9.9	G5	1	..	41389b
43	2159	37.4	-60 9	9.2	9.2	B8	4	..	21154b	93	6675	37.7	-38 35	9.4	9.9	K	1	..	41389b
44	1790	37.4	-61 53	9.0	9.7	Ao	4	0.3	21154b	94	6590	37.7	-39 10	8.9	9.0	Ko	2	..	41389b
45	424	37.4	-82 24	8.9	8.9	Ao	4	..	13465b	95	6436	37.7	-42 22	9.0	9.3	Fo	3	..	15319b
46	286	37.4	-84 53	9.1	10.1	Ko	2	..	13459b	96	3946	37.7	-54 17	8.9	8.8	Ao	5	..	4025ob
47	2175	37.5	+35 42	8.0	8.3	Fo	6	..	37582i	97	2162	37.7	-60 31	8.9	9.1	Ao	4	1.7	31521b
48	2366	37.5	+18 55	7.47	7.81	F2	7	..	38647i	98	683	37.7	-75 53	9.3	9.6	Fo	4	..	21453b
49	2375	37.5	+4 6	6.63	7.05	F5	9	..	37731i	99	3112	37.8	-17 2	8.7	9.9	K5	1	..	13136b
50	2429	37.5	-2 0	9.3	10.5	K5	1	..	19393b	100	3111	37.8	-17 12	8.0	8.3	F2	5	..	1313ob

ANNALS OF HARVARD COLLEGE OBSERVATORY.

92800

10^h 37^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8194	37.8	-25 44	9.3	10.8	K5	1	..	22920b	51	3678	38.1	-56 56	9.6	9.7	A2	3	..	40090b
2	8540	37.8	-29 45	9.8	10.0	Go	2	..	22920b	52	2552	38.1	-58 35	9.4	9.4	B9	1	..	40090b
3	8458	37.8	-31 21	9.5	9.2	A5	2	..	13048b	53	2472	38.1	-59 19	9.1	9.1	B9	3	..	40090b
4	7567	37.8	-33 8	7.49	8.5	F2	7	..	13048b	54	2171	38.1	-60 54	8.9	9.4	B5	4	R	21154b
5	5851	37.8	-48 32	9.8	10.4	K2	2	..	38573b	55	1658	38.2	+46 44	8.1	8.6	F8	6	3,5 R	38672i
6	5350	37.8	-50 14	9.04	10.1	K2	1	..	13780b	56	2287	38.2	+13 55	9.5	10.1	G	1	..	38666i
7	3738	37.8	-55 14	10.0	10.0	A	1	..	40250b	57	2385	38.2	+ 4 49	7.61	7.67	A2	6	..	37731i
8	3737	37.8	-55 49	8.9	9.5	F8	2	..	40250b	58	2351	38.2	+ 2 27	8.5	8.8	F2	3	..	37731i
9	2546	37.8	-58 15	9.02	9.1	Oa	..	0,1	28,204	59	3119	38.2	-10 32	8.5	8.5	Ao	6	..	19017b
10	2166	37.8	-60 59	8.2	9.1	G5	6	..	21154b	60	3137	38.2	-21 59	8.1	8.6	F2	7	..	40282b
11	1760	37.9	+50 20	7.17	8.17	Ko	5	0,3	38665i	61	6738	38.2	-44 44	8.5	9.0	Fo	3	..	13780b
12	2383	37.9	+ 5 11	8.6	9.0	F5	5	..	37731i	62	3837	38.2	-52 27	9.1	10.1	K5	1	..	40250b
13	8195	37.9	-25 49	9.8	9.9	G5	3	..	22920b	63	2475	38.2	-59 55	9.5	9.5	Ao	2	..	40090b
14	8086	37.9	-26 59	10.0	10.2	F8	2	..	22920b	64	2176	38.2	-60 33	8.9	8.8	B9	4	0,7	31521b
15	6733	37.9	-44 42	9.4	9.4	Ao	2	..	13780b	65	287	38.2	-84 46	8.2	9.2	Ko	3	..	13459b
16	6122	37.9	-47 53	10.2	10.4	Ao	2	..	38573b	66	1432	38.3	+52 56	8.25	9.25	Ko	3	..	37717i
17	5465	37.9	-49 40	9.6	10.1	Ao	2	..	38573b	67	2041	38.3	+43 0	8.8	9.8	Ko	1	..	38640i
18	3952	37.9	-55 6	9.7	9.7	Ao	2	..	40250b	68	2352	38.3	+ 2 42	8.5	8.8	F2	4	..	37731i
19	3687	37.9	-57 51	9.4	9.4	Ao	3	..	21154b	69	2473	38.3	+ 1 7	8.6	9.6	Ko	2	..	13378b
20	1803	37.9	-61 14	8.9	9.4	K2	2	..	21154b	70	2986	38.3	- 8 33	9.3	9.7	F5	2	..	13417b
21	1578	37.9	-63 16	8.1	9.2	K2	1	..	38834b	71	9264	38.3	-24 59	10.00	9.9	Go	2	..	22920b
22	2040	38.0	+42 54	7.8	8.8	Ko	3	..	38640i	72	6492	38.3	-43 53	9.1	9.0	F8	2	..	15319b
23	2087	38.0	+29 13	8.1	8.6	F8	3	..	38208i	73	5467	38.3	-50 1	9.6	9.8	A2	3	..	38573b
24	2123	38.0	+26 17	9.3	9.9	Go	2	..	38208i	74	3684	38.3	-57 3	10.0	10.0	Ao	3	..	40090b
25	2253	38.0	+23 43	5.05	5.11	A2	..	0,10	56,87	75	2561	38.3	-58 48	9.2	9.2	B9	2	..	40090b
26	2262	38.0	+22 23	9.0	9.8	G5	1	..	38208i	76	2560	38.3	-59 2	8.4	9.7	Mb	1	..	40090b
27	2366	38.0	- 0 57	8.9	9.7	G5	2	..	19393b	77	2478	38.3	-59 23	9.0	8.5	B8	5	..	40090b
28	2980	38.0	- 3 53	8.3	9.5	K5	2	..	19393b	78	1718	38.3	-62 26	9.2	9.2	Ao	2	0,2	31521b
29	3217	38.0	- 6 21	9.6	10.6	Ko	2	..	13417b	79	1454	38.3	-67 11	8.1	9.5	Ma	3	..	40297b
30	2987	38.0	-22 24	8.8	9.5	Ko	3	..	40282b	80	504	38.4	+72 49	7.18	8.18	Ko	4	..	37554i
31	8384	38.0	-28 59	10.0	11.1	K5	1	..	22920b	81	2178	38.4	+35 17	9.7	10.3	Go	2	..	37582i
32	6359	38.0	-46 29	10.0	9.3	F8	1	..	13780b	82	1923	38.4	+27 55	8.8	9.3	F8	4	..	38208i
33	5353	38.0	-51 2	9.4	9.8	F2	2	..	38573b	83	1929	38.4	+27 13	9.7	10.5	G5	1	..	38208i
34	4068	38.0	-53 12	9.2	10.6	Mb	3	..	37600b	84	2368	38.4	+18 51	6.70	7.70	Ko	6	0,6	38647i
35	2548	38.0	-58 36	8.9	9.7	Ko	1	..	40090b	85	2386	38.4	+ 4 46	8.16	8.72	Go	4	..	37731i
36	2468	38.0	-59 10	8.6	9.7	K2	1	..	40090b	86	2983	38.4	- 3 22	8.8	8.8	Ao	5	..	19393b
37	1583	38.0	-63 35	7.0	7.0	B9	7	1,6	31521b	87	2989	38.4	-22 45	10.5	11.0	Ko	1	..	40282b
38	350	38.1	+80 49	9.4	10.2	G5	1	..	37465i	88	8200	38.4	-25 21	8.1	9.3	Ko	4	..	22920b
39	617	38.1	+67 56	6.32	..	Na	4	R	37554i	89	8094	38.4	-27 6	9.2	9.9	A2	4	..	22920b
40	1805	38.1	+47 42	8.6	8.7	A5	4	..	38308i	90	6675	38.4	-35 59	8.9	10.4	Ko	1	..	41389b
41	2384	38.1	+ 5 16	5.99	6.99	Ko	9	..	37731i	91	5360	38.4	-50 13	9.14	9.8	K2	2	..	38573b
42	3204	38.1	- 3 2	9.2	9.7	F8	3	..	19393b	92	4974	38.4	-51 26	8.6	9.2	Ao	5	..	40250b
43	3201	38.1	-14 13	8.7	9.8	K2	3	..	19017b	93	3687	38.4	-56 36	9.7	9.7	Ao	1	..	40090b
44	2988	38.1	-23 2	6.88	7.9	Ko	8	..	40282b	94	2567	38.4	-58 37	8.7	9.1	B	2	R	40090b
45	7572	38.1	-32 12	5.73	6.1	Ao	..	..	56,128	95	2564	38.4	-58 59	8.9	9.4	Ao	2	..	40090b
46	6058	38.1	-41 23	8.0	9.6	K5	1	..	15319b	96	1720	38.4	-62 59	7.6	7.7	A5	7	3,6	31521b
47	6361	38.1	-46 42	7.3	8.5	Ko	5	..	13780b	97	1456	38.4	-67 23	8.9	9.0	A2	5	..	40297b
48	5354	38.1	-50 36	10.0	9.6	Ao	3	..	38573b	98	1342	38.4	-69 10	9.7	9.7	Ao	1	..	40297b
49	3833	38.1	-52 59	8.7	8.6	B8	5	..	40250b	99	1168	38.4	-71 7	8.8	10.0	K5	2	..	40298b
50	3676	38.1	-56 29	8.2	8.2	Bo	7	..	40090b	100	760	38.4	-73 30	8.6	8.6	Ao	4	..	40298b

THE HENRY DRAPER CATALOGUE.

92900

10^h 38^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	797	38.5 ^{m.}	+65 26	8.5	9.0	F8	5	..	37346i	51	1817	38.8 ^{m.}	-61 41	8.4	9.5	K5	3	..	21154b
2	1323	38.5 [°]	+59 14	9.0	10.0	Ko	2	..	37716i	52	1267	38.8 [°]	-69 2	8.9	10.3	Ma	1	..	40297b
3	2363	38.5 [']	+40 26	8.3	8.9	Go	3	..	38640i	53	1986	38.9 [']	+49 4	8.00	9.00	Ko	3	0,3	38672i
4	2340	38.5 ^{''}	+6 30	9.3	9.9	Go	2	..	13394b	54	2144	38.9 ^{''}	+42 15	7.70	8.88	K5	3	..	38640i
5	7643	38.5	-28 1	8.6	9.3	Fo	4	..	22920b	55	2406	38.9	+3 45	7.9	9.1	K5	1	..	37731i
6	6931	38.5	-34 29	7.7	8.9	Ko	5	..	13048b	56	3133	38.9	-5 33	8.3	9.3	Ko	4	..	13379b
7	6929	38.5	-35 6	8.5	9.3	Ko	2	0,2	41327b	57	3251	38.9	-12 36	10.2	10.3	A2	1	..	19017b
8	4074	38.5	-54 1	7.9	8.0	Ao	7	..	40250b	58	3204	38.9	-13 21	9.6	10.7	K2	1	..	19017b
9	2570	38.5	-58 39	9.0	9.1	A2	2	R	40090b	59	3169	38.9	-14 16	8.9	10.1	K5	3	..	19017b
10	2183	38.5	-60 24	9.0	9.1	B8	3	R	21154b	60	2993	38.9	-22 49	9.6	10.7	K5	1	..	40282b
11	1812	38.5	-61 23	9.0	9.1	B8	5	..	21154b	61	6626	38.9	-36 46	9.1	9.2	Ao	3	..	41389b
12	1813	38.5	-61 43	9.7	9.7	Ao	2	..	21154b	62	4079	38.9	-53 52	9.8	10.2	F5	2	..	37600b
13	1811	38.5	-61 52	9.5	9.5	B8	3	..	21154b	63	3755	38.9	-56 2	8.4	10.0	K5	1	..	40250b
14	1008	38.5	-72 46	7.8	9.2	Ma	3	..	40298b	64	2581	38.9	-58 42	5.44	5.27	B3p	..	R	28,205
15	798	38.6	+65 36	8.1	9.1	Ko	3	..	37346i	65	2192	38.9	-60 42	9.2	9.2	B9	3	..	21154b
16	1280	38.6	+58 27	9.4	9.5	A5	3	..	37716i	66	1592	38.9	-63 53	6.9	6.9	B9	4	..	38834b
17	1763	38.6	+49 58	7.62	8.62	Ko	3	0,3	38672i	67	1459	38.9	-67 22	8.9	8.9	B9	6	..	40297b
18	2174	38.6	+38 2	8.8	9.4	Go	4	..	37582i	68	1098	38.9	-71 46	8.8	8.8	Ao	5	..	40298b
19	3008	38.6	-18 20	8.1	8.9	G5	3	..	13130b	69	501	39.0	+72 29	9.1	10.1	K	1	..	37554i
20	2990	38.6	-22 18	9.8	9.8	Ko	1	..	40282b	70	922	39.0	+63 7	9.4	10.0	G	2	..	37716i
21	8099	38.6	-26 47	8.2	9.9	G5	4	..	22920b	71	2342	39.0	+6 25	9.3	9.7	F5	2	..	13394b
22	8098	38.6	-26 48	11.2	10.8	A3	3	R	22920b	72	3205	39.0	-14 0	9.6	10.4	G5	2	..	19017b
23	8391	38.6	-28 52	9.8	10.8	F5	2	..	22920b	73	8662	39.0	-30 20	7.37	8.8	K5	3	..	13048b
24	4075	38.6	-53 9	9.5	10.3	G5	1	..	37600i	74	8664	39.0	-30 34	8.2	8.2	A2	5	..	13048b
25	3962	38.6	-54 54	8.5	9.1	Ko	3	..	40250b	75	8667	39.0	-30 41	8.2	8.8	Ko	2	..	13048b
26	3749	38.6	-55 57	8.5	9.7	K5	1	..	40250b	76	6501	39.0	-44 5	10.0	9.7	Ao	2	..	15319b
27	3696	38.6	-57 30	9.5	9.5	Ao	2	..	21154b	77	3850	39.0	-52 17	9.5	9.6	A2	3	..	40250b
28	2574	38.6	-58 8	8.8	9.1	Fo	4	..	21154b	78	3845	39.0	-52 22	9.0	9.5	Ao	4	..	40250b
29	3207	38.7	-2 40	8.8	9.8	Ko	3	..	19393b	79	4080	39.0	-53 43	8.0	8.8	F5	5	..	40250b
30	3132	38.7	-6 4	9.6	10.2	G	2	R	13379b	80	4081	39.0	-54 6	9.0	10.0	Ko	3	..	37600b
31	9265	38.7	-24 13	9.8	9.9	F8	3	..	40282b	81	3967	39.0	-54 29	8.6	9.5	K5	2	..	40250b
32	8101	38.7	-26 17	8.1	9.0	Ko	6	..	22920b	82	3700	39.0	-57 47	9.0	8.8	Bo	4	..	40090b
33	8392	38.7	-29 2	9.0	11.1	K5	4	..	22920b	83	2508	39.0	-59 56	9.0	9.9	K2	1	..	40090b
34	8467	38.7	-31 14	6.64	7.6	Ko	7	..	13048b	84	2195	39.0	-60 36	9.0	8.8	Ao	4	..	21154b
35	6681	38.7	-35 12	9.1	9.5	F8	1	..	41375b	85	2193	39.0	-60 50	9.0	9.2	B8	2	..	21154b
36	3696	38.7	-56 21	7.2	7.1	B2	5	..	43205b	86	2936	39.1	-5 1	9.3	9.6	Fo	2	..	13379b
37	2575	38.7	-59 4	9.1	8.9	B8	3	..	40090b	87	6693	39.1	-38 32	7.08	8.1	Go	7	..	41389b
38	1589	38.7	-63 57	5.20	5.03	B3	..	0,9	28,204	88	1821	39.1	-61 23	9.0	10.0	K5	1	..	21154b
39	2375	38.8	+38 53	8.8	8.8	Ao	4	E	37582i	89	1439	39.1	-64 10	7.5	7.5	Ao	5	..	38834b
40	2022	38.8	+33 9	7.62	7.76	A5	6	..	37582i	90	2119	39.2	+40 54	8.05	8.83	G5	4	..	38640i
41	2514	38.8	+20 17	6.10	6.18	A3	8	0,9	38647i	91	2230	39.2	+21 14	8.8	9.4	Go	2	..	38208i
42	3208	38.8	-2 31	9.1	9.7	Go	3	..	19393b	92	2273	39.2	+10 53	7.6	8.7	K2	5	..	38228i
43	2992	38.8	-22 36	8.7	9.2	K2	3	..	40282b	93	2195	39.2	+9 54	9.7	10.3	Go	2	..	13394b
44	9268	38.8	-24 34	8.4	9.6	G5	4	..	22920b	94	2399	39.2	+9 25	9.7	10.8	K2	2	..	13394b
45	8394	38.8	-28 33	7.82	9.0	Ko	7	..	22920b	95	3102	39.2	-8 6	9.1	9.7	G	1	..	13417b
46	8469	38.8	-31 37	7.10	7.4	Ao	8	..	13048b	96	3252	39.2	-12 16	9.1	10.3	K5	1	..	19017b
47	6624	38.8	-36 16	8.8	9.5	G5	1	..	41389b	97	3170	39.2	-14 39	9.1	9.6	F8	3	..	19017b
48	6136	38.8	-48 6	7.9	8.1	B8	5	..	13780b	98	9497	39.2	-23 47	9.6	10.4	Ko	1	..	40282b
49	5861	38.8	-48 32	7.1	8.9	K5	5	..	13780b	99	5870	39.2	-48 56	8.5	9.5	Ko	2	..	13780b
50	5367	38.8	-50 10	9.49	10.1	Ko	2	..	38573b	100	3707	39.2	-57 12	9.5	9.5	B9	2	..	40090b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

93000

10^h 39^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3709	39.2	57 38	8.0	9.1	Go	4	..	21154b	51	3768	39.6	55 24	9.5	9.5	B8	3	..	37600b
2	2592	39.2	58 34	9.1	9.1	B9	2	..	40090b	52	3770	39.6	55 45	9.2	10.2	Ko	2	..	37600b
3	2199	39.2	60 28	7.58	7.5	B3	..	5,3 R	28,205	53	3710	39.6	56 44	9.1	9.1	Ao	5	..	40090b
4	1823	39.2	61 52	9.7	9.7	B8	2	..	21154b	54	2598	39.6	58 23	8.9	8.9	Ao	4	2,4	21154b
5	1461	39.2	67 31	9.3	9.3	A	2	..	40297b	55	2602	39.6	58 35	8.7	8.3	B9	5	..	21154b
6	2994	39.3	22 26	8.7	9.2	K2	4	..	40282b	56	2527	39.6	59 35	8.8	8.8	B9	2	..	40090b
7	6690	39.3	35 30	8.8	9.5	F5	2	..	41327b	57	2528	39.6	59 48	8.6	8.5	F2	4	..	40090b
8	6763	39.3	37 20	8.8	9.5	F8	2	..	41389b	58	1728	39.6	62 29	9.1	9.1	Ao	3	1,3	31521b
9	2516	39.3	60 3	8.9	9.2	B9	2	..	40090b	59	1466	39.6	67 15	9.2	9.2	Ao	3	..	40297b
10	2203	39.3	60 39	7.4	5.8	B5	..	3,5	28,205	60	424	39.7	+75 4	8.57	9.57	Ko	3	..	37742i
11	1826	39.3	61 42	9.0	9.4	F5	3	..	21154b	61	2203	39.7	+24 49	9.01	9.51	F8	2	..	38208i
12	1443	39.3	64 40	8.9	9.0	A2	2	..	38834b	62	3133	39.7	-9 25	8.7	9.9	K5	2	..	13417b
13	1860	39.4	+45 30	8.1	9.1	Ko	2	..	38640i	63	3122	39.7	-10 23	8.21	8.21	Ao	7	..	19017b
14	2176	39.4	+38 38	8.2	9.0	G5	3	E	37582i	64	9500	39.7	-23 28	6.81	8.4	Ko	8	..	40282b
15	2062	39.4	+30 2	8.7	9.3	Go	2	..	38711i	65	7653	39.7	-28 1	9.2	9.9	F2	2	..	22920b
16	2268	39.4	+21 48	10.0	10.0	A	2	E	37504i	66	6640	39.7	-36 18	8.5	8.6	Ao	5	..	41389b
17	2343	39.4	+6 1	8.5	9.5	Ko	2	..	37731i	67	6395	39.7	-46 50	9.6	9.6	A2	2	..	9453b
18	2377	39.4	+4 34	8.65	8.93	Fo	4	..	13378b	68	4986	39.7	-51 40	10.5	9.8	Ao	2	..	37600b
19	2367	39.4	-0 37	9.0	9.8	G5	1	..	19393b	69	4090	39.7	-53 39	8.4	8.8	Ao	4	..	40250b
20	2434	39.4	-1 48	8.9	9.5	G	2	..	19393b	70	2532	39.7	-60 3	4.49	6.9	K5	..	3,8 R	28,205
21	9271	39.4	-24 51	9.0	9.9	Go	3	..	22920b	71	2214	39.7	-60 53	9.4	9.4	B8	3	..	21154b
22	5375	39.4	-51 2	9.6	9.5	Ao	2	..	13780b	72	1832	39.7	-61 32	9.4	9.4	Ao	3	..	21154b
23	3972	39.4	-54 9	9.9	10.0	A2	2	..	37600b	73	1104	39.7	-71 58	9.0	10.0	Ko	2	..	40298b
24	3703	39.4	-56 21	9.5	9.5	Ao	3	..	40090b	74	1325	39.8	+59 35	8.9	10.1	K5	1	..	37716i
25	3704	39.4	-56 59	9.4	9.4	B8	3	..	40090b	75	1290	39.8	+57 26	7.03	7.31	Fo	6	..	37717i
26	2594	39.4	-58 39	9.1	9.4	A3	2	..	40090b	76	2232	39.8	+21 44	8.8	9.6	G5	2	E	37504i
27	2522	39.4	-59 37	8.9	8.9	B3	3	1,4-	38749b	77	2269	39.8	+16 52	7.7	8.1	F5	4	..	38647i
28	2521	39.4	-59 41	8.6	8.3	Oes	5	..	21154b	78	2197	39.8	+10 3	9.3	9.4	A3	1	..	38228i
29	1726	39.4	-62 27	9.5	9.5	B9	1	..	38834b	79	2352	39.8	+7 6	9.3	9.6	Fo	2	..	13394b
30	1599	39.4	-63 52	3.03	2.79	Bo	..	R	28,205	80	2388	39.8	+4 52	8.71	9.89	K5	2	..	13394b
31	1273	39.4	-68 35	9.1	9.2	A5	2	..	40297b	81	2378	39.8	+3 50	7.02	7.44	F5	7	..	37731i
32	1014	39.4	-73 0	9.8	9.9	A2	1	..	39946b	82	2996	39.8	-22 23	10.2	10.6	Ko	1	..	40282b
33	1659	39.5	+46 5	6.87	6.82	B8	..	2,7	56,87	83	7598	39.8	-33 3	8.2	9.2	K2	2	..	13048b
34	2435	39.5	-1 57	8.5	9.3	G5	2	..	22977b	84	6767	39.8	-37 58	9.4	9.8	A	1	..	41389b
35	3130	39.5	-10 13	9.46	9.46	Ao	2	2,2	19017b	85	5880	39.8	-49 4	8.5	8.6	Ao	5	..	13780b
36	3013	39.5	-18 36	7.80	7.80	Ao	7	..	13130b	86	3859	39.8	-52 34	10.3	10.3	A	2	..	37600b
37	6512	39.5	-43 14	8.0	9.4	K5	1	..	15319b	87	1385	39.8	-66 58	9.2	9.2	Ao	3	..	40297b
38	6513	39.5	-43 34	9.6	9.9	A3	1	..	15319b	88	666	39.9	+66 54	9.6	9.7	A2	2	..	37346i
39	3974	39.5	-54 52	9.1	9.1	Ao	2	..	40250b	89	1765	39.9	+49 57	8.1	8.9	G5	2	0,3	38672i
40	3766	39.5	-56 7	9.4	10.2	G5	2	..	40090b	90	2072	39.9	+32 41	8.8	9.4	Go	3	..	37582i
41	2526	39.5	-59 49	8.4	9.4	K5	1	..	40090b	91	2436	39.9	-1 43	9.7	10.5	G5	1	..	19393b
42	2206	39.5	-60 33	8.9	9.1	A	4	..	21154b	92	6085	39.9	-41 32	9.1	9.1	A2	4	..	15319b
43	2207	39.5	-60 42	9.3	9.2	B5	4	..	21154b	93	5881	39.9	-48 23	7.4	8.3	F5	7	..	13780b
44	2145	39.6	+41 50	7.10	7.38	Fo	7	..	38640i	94	4988	39.9	-51 24	7.12	8.6	Ko	7	..	40250b
45	2344	39.6	+6 34	8.9	9.4	F8	3	..	13394b	95	4091	39.9	-53 9	9.3	10.3	Ko	2	..	37600i
46	2353	39.6	+2 22	8.3	9.1	G5	2	..	37731i	96	3714	39.9	-56 12	8.6	8.8	Ao	5	..	40090b
47	7207	39.6	-33 44	8.9	9.1	F2	2	..	13048b	97	2540	39.9	-59 34	9.0	9.1	A2	2	..	40090b
48	6622	39.6	-39 34	8.8	9.0	Fo	3	..	41327b	98	1613	39.9	-63 33	7.3	7.3	Ao	4	0,5	31521b
49	6146	39.6	-47 43	9.1	9.0	A5	4	3,4	9453b	99	1386	39.9	-66 46	8.3	9.5	K5	1	..	40297b
50	4088	39.6	-53 38	9.9	10.0	A3	4	..	37600i	100	2265	40.0	+24 7	9.0	10.0	Ko	1	..	38208i

THE HENRY DRAPER CATALOGUE.

93100

10^h 40^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2379	40.0	+ 4 16	8.0	9.1	K2	2	..	37731i	51	2117	40.3	+36 6	9.7	10.3	G	2	..	37582i
2	2408	40.0	+ 3 0	6.57	7.64	K2	9	..	37731i	52	2180	40.3	+31 13	5.37	5.35	B9	..	..	56,87
3	3145	40.0	-22 1	9.3	9.5	F5	4	..	40282b	53	2477	40.3	+ 1 32	7.9	8.9	Ko	4	..	37731i
4	2997	40.0	-22 26	9.3	9.5	F5	3	..	40282b	54	8115	40.3	-26 59	9.3	10.8	G5	2	..	22920b
5	6644	40.0	-36 24	6.78	7.3	F8	8	..	41389b	55	6651	40.3	-36 45	8.5	9.5	Ko	2	..	41389b
6	6351	40.0	-45 41	8.5	9.1	Go	3	0,2	13780b	56	4095	40.3	-53 46	8.7	9.1	A2	3	..	40250b
7	4990	40.0	-51 19	9.1	9.6	A2	4	0,2	37600b	57	3992	40.3	-54 14	10.3	10.3	Ao	2	..	37600b
8	4991	40.0	-51 40	8.9	9.2	Fo	4	..	40250b	58	3728	40.3	-57 5	8.9	9.1	Fo	4	..	40090b
9	3863	40.0	-52 34	8.8	10.1	Mb	4	0,1	37600b	59	3741	40.3	-57 52	8.5	8.5	Ao	2	2,7	43205b
10	3990	40.0	-54 14	9.1	9.7	Go	3	..	37600b	60	2631	40.3	-59 3	7.2	7.6	B	7	R	40090b
11	3988	40.0	-54 23	8.9	9.4	G5	2	..	40250b	61	2631	40.3	-59 3	7.2	7.6	A3	..	..	40090b
12	3987	40.0	-54 37	10.0	10.0	Ao	2	..	37600b	62	2561	40.3	-59 12	8.4	8.8	Oc	..	0,4	28,205
13	3731	40.0	-57 10	8.6	8.8	B5	4	..	40090b	63	1619	40.3	-63 44	6.14	6.2	B3	..	0,8	28,205
14	2612	40.0	-58 35	8.4	8.2	A3	6	..	21154b	64	1109	40.3	-71 40	7.5	8.0	F8	8	..	40298b
15	1731	40.0	-63 8	7.7	8.9	K5	2	5,2	31521b	65	727	40.3	-74 57	6.85	7.0	B9	8	..	40298b
16	1106	40.0	-71 14	8.6	9.4	G5	5	..	40298b	66	289	40.3	-84 47	9.1	10.2	K2	3	..	22238b
17	1105	40.0	-71 18	8.8	10.0	K5	3	..	40298b	67	2366	40.4	+40 1	8.2	8.5	F2	3	..	38640i
18	427	40.0	-82 36	9.0	9.8	G5	2	..	13465b	68	2118	40.4	+36 13	9.7	10.5	G5	2	..	37582i
19	2476	40.1	+ 1 2	8.9	9.9	Ko	1	..	13378b	69	2409	40.4	+ 8 3	7.9	8.9	Ko	5	..	38228i
20	3104	40.1	- 7 30	9.3	9.7	F5	2	..	13417b	70	3121	40.4	-16 54	9.1	9.5	F5	2	..	13130b
21	8112	40.1	-26 54	10.3	11.1	K2	1	..	22920b	71	8571	40.4	-29 9	7.80	9.1	K2	7	..	22920b
22	6769	40.1	-37 37	7.73	8.4	F8	5	..	41389b	72	6094	40.4	-41 54	8.8	9.1	A2	3	..	15319b
23	5493	40.1	-49 13	9.1	9.6	Ao	3	..	13780b	73	6522	40.4	-43 26	9.1	9.4	G5	2	..	15319b
24	5492	40.1	-49 19	7.9	9.2	Fo	4	..	13780b	74	3996	40.4	-54 44	9.1	10.3	K5	2	..	37600b
25	3864	40.1	-52 31	8.6	9.5	Ko	6	2,4	37600b	75	2229	40.4	-60 49	9.1	9.7	Ao	2	..	21154b
26	4094	40.1	-54 7	8.3	9.1	G5	3	..	40250b	76	1390	40.4	-67 6	8.3	9.5	K5	2	..	40297b
27	3778	40.1	-55 16	7.46	8.8	Ko	5	..	40250b	77	799	40.5	+65 23	9.4	10.2	G5	2	..	37346i
28	2617	40.1	-59 2	7.07	8.5	B	8	R	40090b	78	2199	40.5	+10 33	8.9	10.1	K5	2	..	13394b
29	2618	40.1	-59 2	7.07	8.5	B	8	R	40090b	79	2355	40.5	+ 7 19	10.0	10.0	Ao	3	..	13394b
30	2556	40.1	-59 21	8.9	8.3	B5	4	..	40090b	80	2347	40.5	+ 5 54	8.1	8.2	A5	6	..	37731i
31	2548	40.1	-59 36	6.71	6.3	Ocp	..	R	28,205	81	2370	40.5	- 0 57	8.7	9.3	G	2	..	19393b
32	1281	40.2	+57 53	6.49	7.84	Ma	7	0,7	37717i	82	3105	40.5	- 8 5	8.3	9.4	K2	4	..	13417b
33	1408	40.2	+55 42	8.1	8.9	G5	3	..	37717i	83	2937	40.5	-11 20	9.3	9.3	Ao	2	..	19017b
34	1394	40.2	+54 20	8.7	9.1	F5	2	..	37717i	84	3017	40.5	-19 10	8.7	9.5	Go	1	..	13136b
35	2024	40.2	+33 8	7.52	7.80	Fo	6	..	37582i	85	7663	40.5	-27 48	9.5	9.9	Ao	4	..	22920b
36	2073	40.2	+32 36	8.8	9.4	Go	2	..	37582i	86	8694	40.5	-30 49	8.0	9.2	K5	2	..	13048b
37	1925	40.2	+28 30	8.8	9.2	F5	2	..	38208i	87	3734	40.5	-56 20	10.0	10.0	Ao	1	..	40090b
38	2408	40.2	+ 8 31	8.6	9.6	Ko	2	..	38228i	88	3731	40.5	-56 32	10.2	10.2	A	1	..	40090b
39	2354	40.2	+ 7 29	8.3	8.8	F8	4	..	38228i	89	3748	40.5	-57 53	8.6	10.0	K2	2	3,1	40090b
40	9505	40.2	-24 4	9.3	10.4	Ko	2	..	40282b	90	2637	40.5	-58 46	8.9	9.1	B	2	R	21154b
41	9282	40.2	-24 35	9.6	9.9	G5	2	..	22920b	91	2577	40.5	-59 22	8.5	8.5	Ao	4	..	40090b
42	6949	40.2	-34 50	8.0	8.0	A5	6	..	41375b	92	2575	40.5	-59 41	8.8	8.8	Ao	3	..	21154b
43	4996	40.2	-51 26	9.4	10.4	K2	2	..	37600b	93	2232	40.5	-60 42	8.9	9.7	Ao	2	..	21154b
44	3991	40.2	-55 2	8.42	9.4	K5	3	..	40250b	94	1623	40.5	-63 26	5.09	4.92	B3	..	..	28,205
45	3724	40.2	-56 51	10.3	10.2	B5	2	..	40090b	95	2125	40.6	+26 6	8.7	9.7	Ko	2	..	38208i
46	2555	40.2	-59 34	9.0	8.8	B	5	R	40090b	96	3227	40.6	- 7 3	8.7	8.7	Ao	6	..	13417b
47	1452	40.2	-64 57	7.9	8.9	Ko	2	..	38834b	97	6638	40.6	-39 44	9.1	8.7	Ao	4	..	41327b
48	502	40.3	+72 11	8.1	8.5	F5	4	..	37554i	98	6524	40.6	-43 20	9.0	8.8	A2	6	..	15319b
49	1287	40.3	+59 46	9.11	9.89	G5	2	..	37716i	99	5390	40.6	-50 22	7.9	8.6	G5	4	..	13780b
50	1410	40.3	+55 21	8.9	9.9	K	1	..	37717i	100	3874	40.6	-52 39	9.8	9.8	Ao	4	..	37600b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

93200

10^h 40^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4099	40.6	-53 10	9.7	9.7	Ao	2	..	40250b	51	410	41.0	+77 24	8.5	8.8	F2	3	R	37465i
2	4100	40.6	-53 45	9.4	10.0	Go	4	..	37600b	52	801	41.0	+65 6	8.9	9.2	Fo	4	..	37346i
3	3737	40.6	-57 3	var.	var.	G5	8	R	40090b	53	1288	41.0	+60 12	8.7	9.7	Ko	2	..	37716i
4	2584	40.6	-59 13	9.0	8.8	B	6	R	40090b	54	2015	41.0	+44 23	9.0	9.5	F8	1	..	38308i
5	2587	40.6	-59 13	8.4	8.8	B	6	R	40090b	55	2180	41.0	+35 27	10.0	10.6	G	2	..	37582i
6	2572	40.6	-59 28	6.64	6.6	Bo	..	R	28,205	56	2297	41.0	+25 6	8.8	9.8	Ko	1	..	38208i
7	2240	40.6	-60 50	8.8	8.3	Ao	3	1,6	31521b	57	2371	41.0	+19 25	5.64	6.64	Ko	8	0,8 R	38647i
8	1842	40.6	-61 33	8.5	8.8	B3	6	..	21154b	58	2699	41.0	+ 0 38	8.94	8.94	Ao	4	..	13378b
9	1456	40.6	-64 9	8.9	8.9	A	1	..	38834b	59	3139	41.0	- 5 56	9.1	10.2	K2	3	..	13417b
10	1278	40.6	-68 56	8.5	8.6	A5	3	..	40297b	60	3122	41.0	-16 34	8.7	9.9	K5	1	..	13130b
11	249	40.6	-85 51	8.3	8.6	F2	4	..	13459b	61	3018	41.0	-19 11	9.1	9.6	G5	2	..	13136b
12	154	40.7	+85 54	8.3	8.9	Go	6	..	37793i	62	3261	41.0	-20 27	8.1	8.9	A5	4	E	13130b
13	2012	40.7	+44 38	7.97	8.47	F8	4	..	38640i	63	8124	41.0	-26 59	8.2	8.7	F5	6	..	22920b
14	2119	40.7	+36 9	9.0	9.5	F8	5	..	37582i	64	6535	41.0	-43 11	9.6	9.6	Ao	4	..	15319b
15	2126	40.7	+26 18	8.4	9.2	G5	5	..	38208i	65	3880	41.0	-52 33	9.7	9.8	A5	3	..	37662i
16	3125	40.7	-10 20	8.01	8.79	G5	7	..	19017b	66	4004	41.0	-54 31	8.9	9.7	Ko	5	2,1	37600i
17	3258	40.7	-13 6	9.3	9.9	Go	3	..	19017b	67	3749	41.0	-56 46	9.4	9.4	B9	3	..	40090b
18	2099	40.7	-22 17	9.8	9.8	F5	2	..	40282b	68	2665	41.0	-59 2	9.6	9.7	A2	2	..	40090b
19	8119	40.7	-26 21	9.6	9.9	F5	2	..	22920b	69	1629	41.0	-63 17	7.9	8.9	Ko	2	..	38834b
20	4001	40.7	-54 11	10.0	10.0	Ao	2	..	37600b	70	682	41.1	+65 59	7.58	8.08	F8	5	..	37346i
21	4000	40.7	-54 22	9.1	10.3	K5	1	..	37600b	71	2045	41.1	+43 34	7.45	8.52	K2	4	..	38640i
22	2590	40.7	-59 34	8.9	8.2	B2	6	..	21154b	72	2298	41.1	+25 11	9.2	10.2	Ko	1	..	38208i
23	2242	40.7	-61 3	8.6	9.4	Ko	3	..	21154b	73	2302	41.1	+13 16	6.80	6.86	A2	8	..	38228i
24	1327	40.8	+59 14	9.4	10.0	G	3	..	37716i	74	2200	41.1	+10 2	8.9	9.9	Ko	1	..	38228i
25	2127	40.8	+26 31	9.6	10.2	Go	1	..	38208i	75	2440	41.1	- 1 54	8.7	9.8	K2	3	..	22977b
26	3134	40.8	-10 11	7.26	7.26	Ao	3	..	11062b	76	2997	41.1	- 9 11	8.3	9.3	Ko	1	..	13409b
27	9289	40.8	-24 30	7.44	8.2	Ko	7	..	22920b	77	3123	41.1	-16 12	8.3	9.1	G5	5	..	13130b
28	6655	40.8	-36 52	7.7	7.9	B9	5	..	41389b	78	3020	41.1	-19 7	8.6	9.6	Ko	1	..	13136b
29	6640	40.8	-40 4	9.5	9.6	Ao	2	..	41327b	79	7619	41.1	-32 38	9.5	9.5	A	1	..	13048b
30	6468	40.8	-42 19	9.0	9.7	Ko	1	..	15319b	80	6781	41.1	-44 36	9.0	9.3	Ao	2	..	15319b
31	5003	40.8	-51 23	10.5	9.8	A2	2	..	37600b	81	2611	41.1	-59 25	8.7	9.4	Ko	2	..	21154b
32	4002	40.8	-54 35	10.2	10.2	Ao	3	..	37600b	82	1851	41.1	-61 17	9.3	9.4	A3	3	..	21154b
33	3743	40.8	-57 0	8.9	9.1	F5	4	..	40090b	83	1735	41.1	-62 15	8.6	9.2	G	1	..	38834b
34	2244	40.8	-60 27	8.9	8.8	B9	4	0,2	21154b	84	1399	41.1	-66 9	8.5	8.6	A3	4	..	38834b
35	2243	40.8	-60 43	9.1	8.6	B9	4	1,2	21154b	85	1483	41.1	-68 4	8.6	8.6	Ao	6	..	40297b
36	1847	40.8	-62 5	9.6	9.7	A2	3	..	21154b	86	1289	41.2	+60 38	7.22	7.50	Fo	7	..	37716i
37	548	40.8	-79 16	6.18	5.6	B5	..	3, R	28,205	87	2181	41.2	+35 14	8.8	10.2	Ma	3	..	37582i
38	681	40.9	+66 8	7.21	8.56	Ma	4	..	37346i	88	2158	41.2	+34 5	8.4	9.2	G5	4	..	37582i
39	800	40.9	+64 56	9.6	10.2	G	2	R	37346i	89	2031	41.2	+32 54	9.0	9.8	G5	3	..	37582i
40	2156	40.9	+34 40	8.52	9.30	G5	4	..	37582i	90	2272	41.2	+17 24	8.3	8.8	F8	2	..	38647i
41	2182	40.9	+31 12	8.4	8.7	Fo	4	..	37582i	91	2294	41.2	+14 43	5.64	6.64	Ko	10	R	38228i
42	2128	40.9	+26 8	8.7	9.5	G5	3	..	38208i	92	2357	41.2	+ 2 40	9.0	9.8	G5	2	..	13378b
43	2412	40.9	+ 8 30	9.3	10.4	K2	3	..	13394b	93	2942	41.2	- 4 27	9.3	10.4	K2	2	..	19393b
44	2356	40.9	+ 6 54	6.29	7.29	Ko	8	..	37731i	94	2941	41.2	- 5 14	8.25	8.25	Ao	5	..	13379b
45	5893	40.9	-48 45	9.0	9.3	Fo	3	..	9453b	95	3097	41.2	-19 20	8.7	9.5	Go	1	..	13136b
46	5504	40.9	-49 25	9.6	9.2	Ao	2	..	13780b	96	8705	41.2	-30 20	8.2	9.2	K2	2	..	13048b
47	3800	40.9	-55 46	var.	var.	Ko	4	R	40090b	97	6659	41.2	-36 25	7.72	8.7	Ko	5	..	41327b
48	3744	40.9	-56 35	8.9	9.1	Ao	3	..	40090b	98	6276	41.2	-40 58	7.6	8.1	A2	4	..	43044b
49	2659	40.9	-58 50	7.9	8.2	B	8	..	21154b	99	5507	41.2	-49 55	8.2	9.8	K5	1	..	13780b
50	2661	40.9	-59 3	8.4	7.5	B	6	R	40090b	100	5398	41.2	-50 59	8.2	8.9	A2	4	..	13780b

THE HENRY DRAPER CATALOGUE.

93300

10^h 41^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4111	m. 41.2	° 53 46	9.0	9.1	A3	3	..	40250b	51	2372	m. 41.6	° - 1 9	9.3	10.3	Ko	1	..	22977b
2	4009	41.2	-54 30	8.9	9.7	Ko	6	5,1	37600b	52	3265	41.6	-13 2	9.3	10.3	Ko	1	..	19017b
3	4007	41.2	-54 58	8.9	10.0	K2	4	..	37600b	53	3022	41.6	-19 14	7.14	8.6	K2	6	..	13130b
4	4008	41.2	-55 4	10.2	10.2	A	3	..	37600b	54	3003	41.6	-22 22	9.6	9.5	F5	2	..	40282b
5	3804	41.2	-55 27	9.1	9.5	Ko	2	..	40250b	55	6787	41.6	-44 11	8.4	9.6	Ko	2	..	15319b
6	3765	41.2	-57 13	7.1	8.8	Ko	6	..	40090b	56	3889	41.6	-52 32	9.0	9.6	Go	2	..	37662b
7	3763	41.2	-57 38	8.0	8.5	G5	2	0,7	43205b	57	3887	41.6	-53 6	7.6	9.3	Ma	2	..	40250b
8	2620	41.2	-59 10	var.	var.	Pec.	..	0,4 R	28,205	58	1402	41.6	-66 13	9.2	9.2	B9	2	..	38834b
9	1024	41.2	-72 12	9.5	9.5	Ao	3	..	40298b	59	1185	41.6	-70 20	6.51	7.2	A3	..	2,8	56,128
10	291	41.2	-84 40	8.0	8.0	B9	5	1,2	13459b	60	924	41.7	+63 4	9.0	9.8	G5	1	..	37716i
11	625	41.3	+70 22	8.3	9.4	K2	2	..	37554i	61	2130	41.7	+26 29	9.6	10.0	F5	2	..	38208i
12	1202	41.3	+61 25	9.4	9.5	A2	2	..	37716i	62	2234	41.7	+21 7	10.9	11.9	K	1	..	37504i
13	2991	41.3	- 4 6	9.3	10.3	Ko	2	..	19393b	63	2304	41.7	+13 34	7.6	8.6	Ko	3	..	38228i
14	3175	41.3	-14 37	8.7	9.7	Ko	3	..	19017b	64	2411	41.7	+ 3 38	8.1	9.3	K5	2	..	13378b
15	3149	41.3	-22 5	9.3	11.3	Ma	1	..	40282b	65	3023	41.7	-18 20	7.53	8.60	K2	5	..	13130b
16	6279	41.3	-40 27	6.82	8.2	Ko	4	..	43044b	66	6963	41.7	-34 16	8.8	9.9	K5	1	..	41375b
17	5900	41.3	-48 43	8.6	9.6	K2	2	..	9453b	67	6792	41.7	-37 19	8.5	9.8	Ko	2	..	41327b
18	4112	41.3	-53 18	8.0	8.5	B8	6	..	40250b	68	4020	41.7	-54 12	8.9	10.3	Mb	2	..	37600b
19	3807	41.3	-55 54	8.3	9.5	Ko	4	..	40090b	69	3822	41.7	-55 46	9.0	9.4	A2	4	..	40090b
20	3810	41.3	-56 2	8.1	9.7	A3	2	..	40090b	70	2648	41.7	-59 54	9.4	9.4	Ao	2	..	21154b
21	2251	41.3	-60 8	9.5	9.4	B5	3	..	21154b	71	1739	41.7	-62 14	9.1	9.1	Ao	2	1,2	31521b
22	2250	41.3	-61 4	9.9	9.9	Ao	2	..	21154b	72	1118	41.7	-71 55	6.30	7.6	F8	..	0,8	28,205
23	1485	41.3	-67 43	8.8	8.8	Ao	3	..	40297b	73	2067	41.8	+30 31	8.6	9.4	G5	3	..	37582i
24	1115	41.3	-71 24	8.9	9.7	G5	3	..	40298b	74	2259	41.8	+22 46	9.6	10.4	G5	1	..	37504i
25	1114	41.3	-71 32	8.0	9.4	Ma	4	..	40298b	75	2235	41.8	+21 34	8.8	9.3	F8	3	..	37504i
26	685	41.3	-76 4	8.8	9.6	G5	6	..	21453b	76	2406	41.8	+ 9 30	9.5	9.9	F5	2	..	13394b
27	2269	41.4	+24 41	8.81	9.81	Ko	2	..	38208i	77	2946	41.8	- 4 51	8.1	8.2	A2	7	..	13379b
28	2273	41.4	+17 4	7.72	8.72	Ko	3	0,3	37504i	78	3213	41.8	-13 33	8.8	9.8	Ko	3	..	19017b
29	2277	41.4	+11 43	8.1	8.1	Ao	5	..	38228i	79	3025	41.8	-19 11	9.1	9.6	G5	2	..	13136b
30	2394	41.4	+ 5 11	7.9	8.9	Ko	4	..	37731i	80	9524	41.8	-24 3	9.5	10.4	K5	1	..	40282b
31	3264	41.4	-12 56	7.14	7.14	Ao	4	0,8-	11062b	81	7672	41.8	-27 37	8.2	8.9	F5	4	R	41399b
32	3001	41.4	-22 54	7.62	7.5	A3	8	..	40282b	82	8709	41.8	-30 56	9.6	9.4	A3	1	..	13048b
33	6662	41.4	-36 47	9.5	10.4	Ko	1	..	41327b	83	7625	41.8	-32 47	8.5	8.8	Ao	4	..	13048b
34	6649	41.4	-39 17	9.2	8.5	Ao	3	..	41327b	84	6669	41.8	-37 1	10.3	9.9	F8	1	..	41327b
35	6370	41.4	-45 14	9.08	9.4	F5	2	..	15319b	85	6283	41.8	-40 56	7.5	8.1	G5	3	..	43044b
36	6415	41.4	-46 56	7.0	8.4	Ma	7	..	9453b	86	5405	41.8	-50 52	9.6	9.6	A3	3	..	37600b
37	5400	41.4	-50 59	8.5	9.2	Ao	2	..	13780b	87	3891	41.8	-52 58	10.4	10.4	Ao	3	..	37600b
38	4018	41.4	-54 45	9.0	9.1	A3	2	..	40250b	88	4120	41.8	-53 37	9.3	10.3	Ko	1	..	37600b
39	3813	41.4	-55 16	7.10	9.1	K2	4	R	40250b	89	3761	41.8	-56 48	9.0	9.1	Ao	4	..	40090b
40	3814	41.4	-55 16	10.0	10.0	A5	2	..	37600b	90	1855	41.8	-61 52	9.0	10.0	Ko	1	..	21154b
41	3759	41.4	-56 28	9.4	9.4	B9	2	..	40090b	91	1936	41.9	+27 26	7.32	8.50	K5	5	..	38208i
42	2674	41.4	-58 52	9.4	9.2	B	2	..	40090b	92	2261	41.9	+23 7	8.2	8.5	Fo	5	..	37504i
43	2633	41.4	-59 14	9.6	9.4	B	5	R	21154b	93	2236	41.9	+21 19	8.8	9.4	Go	2	..	37504i
44	1183	41.4	-70 20	6.32	7.1	A3	..	2,8	56,128	94	2297	41.9	+14 12	9.3	10.3	Ko	1	..	38666i
45	683	41.5	+66 44	8.9	9.4	F8	4	..	37346i	95	2441	41.9	- 1 37	8.9	9.7	G5	1	..	22977b
46	3176	41.5	-14 30	7.24	7.24	Ao	3	0,7	11062b	96	2999	41.9	- 8 52	7.9	8.9	Ko	3	..	13409b
47	8131	41.5	-26 12	7.48	7.9	Ko	6	..	22920b	97	3124	41.9	-16 46	5.56	5.56	Ao	8	R	5897b
48	6663	41.5	-36 20	8.9	9.5	Ko	1	..	41327b	98	6722	41.9	-35 46	8.1	8.6	A5	4	..	41375b
49	6173	41.5	-47 26	9.4	9.5	B9	2	..	9453b	99	6111	41.9	-41 25	8.5	8.8	Ko	3	..	15319b
50	2121	41.6	+41 14	7.8	8.8	Ko	3	..	38640i	100	5517	41.9	-49 53	9.2	9.5	Ao	3	..	13780b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

93400

10^h 41^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4121	m. 41.9	• -53 28	9.7	9.7	Ao	2	..	40250b	51	2442	m. 42.2	• -1 21	8.4	8.8	F5	3	..	22977b
2	2681	41.9	-58 9	9.4	9.4	Ao	3	..	40090b	52	6114	42.2	-42 6	7.3	8.2	G5	7	..	15319b
3	2680	41.9	-58 53	8.0	7.3	Bo	3	..	43205b	53	6484	42.2	-42 40	6.57	7.4	A3	7	..	43044b
4	2260	41.9	-60 22	9.4	10.2	G5	1	..	21154b	54	4125	42.2	-53 43	9.9	10.2	F2	3	..	37600b
5	1637	41.9	-63 42	8.6	9.2	Go	2	..	38834b	55	2690	42.2	-59 2	9.9	9.9	A	1	R	40090b
6	2272	42.0	+22 26	8.8	9.8	Ko	2	..	37504i	56	627	42.3	+70 44	8.7	9.2	F8	4	..	37554i
7	2204	42.0	+9 47	9.27	9.83	Go	2	..	13394b	57	2123	42.3	+41 37	6.85	6.93	A3	8	..	38640i
8	3181	42.0	-15 12	7.01	7.01	Ao	8	..	13130b	58	2371	42.3	+40 17	7.02	8.02	Ko	5	..	38640i
9	9306	42.0	-25 1	7.53	8.9	K5	6	..	22920b	59	2373	42.3	+19 30	8.0	8.8	G5	2	..	37504i
10	8237	42.0	-25 32	6.86	7.4	Ko	8	..	22920b	60	2412	42.3	+3 2	8.1	9.3	K5	4	..	37731i
11	8238	42.0	-25 52	7.8	8.4	K5	5	..	22920b	61	2374	42.3	-1 12	8.5	9.5	Ko	4	..	22977b
12	6112	42.0	-42 8	7.1	7.8	F2	4	..	43044b	62	3000	42.3	-8 30	9.3	9.9	Go	2	..	13417b
13	6179	42.0	-47 36	8.5	9.9	Ko	2	..	9453b	63	3127	42.3	-16 53	8.7	8.8	A5	2	..	13130b
14	5021	42.0	-51 24	9.2	9.6	G5	4	..	37600b	64	3269	42.3	-20 59	8.7	9.5	Fo	6	..	40282b
15	5019	42.0	-51 28	9.6	9.6	A5	3	..	37600b	65	7635	42.3	-32 53	8.2	8.2	B9	6	..	13048b
16	5020	42.0	-51 42	9.0	9.3	Ao	7	..	37600b	66	6729	42.3	-35 34	7.9	9.5	K5	1	..	41375b
17	4122	42.0	-53 38	9.9	10.0	A3	3	R	37600b	67	3828	42.3	-55 25	9.6	10.2	Go	2	..	37600b
18	4021	42.0	-54 40	9.4	9.7	Fo	4	..	37600b	68	3783	42.3	-56 18	9.1	9.1	B8	2	..	40090b
19	3770	42.0	-56 21	9.4	9.4	B9	2	..	40090b	69	2692	42.3	-58 48	7.9	7.9	A5	8	3,1	21154b
20	2683	42.0	-58 58	7.9	9.4	Ma	4	..	21154b	70	1283	42.4	+57 51	7.8	8.4	Go	5	..	37717i
21	2659	42.0	-59 40	8.8	8.8	Ao	7	0.4	21154b	71	1866	42.4	+45 21	7.8	8.8	Ko	4	..	38308i
22	2263	42.0	-60 36	9.7	9.7	B9	2	..	21154b	72	2299	42.4	+24 48	9.21	9.99	G5	2	..	38208i
23	2262	42.0	-60 48	9.4	9.4	Ao	4	..	21154b	73	2413	42.4	+3 20	9.3	9.9	Go	4	..	13378b
24	1469	42.0	-64 11	7.7	7.8	A2	3	..	38834b	74	9532	42.4	-24 2	7.8	8.4	A5	7	..	40282b
25	1490	42.0	-67 18	9.4	9.5	A2	2	..	40075b	75	6975	42.4	-34 8	9.1	9.4	Ao	3	..	13048b
26	102	42.0	-88 11	9.4	10.5	K2	2	..	22238b	76	6121	42.4	-41 24	9.2	8.5	A5	5	..	15319b
27	803	42.1	+65 40	6.24	6.22	B9	10	..	37346i	77	5412	42.4	-50 32	7.8	8.6	Ao	7	..	13780b
28	1283	42.1	+37 51	7.9	8.5	Go	5	..	37717i	78	3896	42.4	-53 2	9.3	10.1	G5	5	..	37600b
29	2160	42.1	+34 8	9.0	10.0	Ko	2	..	37582i	79	3899	42.4	-53 6	9.3	10.1	G5	3	..	37600b
30	2274	42.1	+17 27	8.7	9.3	Go	2	..	38647i	80	4127	42.4	-53 18	10.0	10.0	Ao	4	..	37600b
31	2358	42.1	+6 52	7.01	7.07	A2	8	..	37731i	81	3787	42.4	-56 18	9.7	9.7	Ao	1	..	40090b
32	2941	42.1	-11 29	9.2	9.0	F2	2	..	13409b	82	3783	42.4	-57 57	9.7	9.7	Ao	2	..	40090b
33	3101	42.1	-19 21	9.2	9.6	F8	1	..	13136b	83	2268	42.4	-60 45	9.3	9.1	B3	3	..	21154b
34	6676	42.1	-37 7	9.2	9.8	F5	1	..	41327b	84	1865	42.4	-61 25	7.6	6.9	B5	4	..	43205b
35	6288	42.1	-40 49	8.5	9.0	G5	5	..	41327b	85	1746	42.4	-62 19	8.6	9.1	F8	3	0.3-	38834b
36	6113	42.1	-41 35	8.9	8.8	A2	5	..	15319b	86	467	42.4	-81 31	8.27	8.5	F5	4	..	13465b
37	6432	42.1	-47 6	9.6	9.6	G5	1	..	9453b	87	2272	42.5	+23 52	8.8	9.3	F8	2	..	38208i
38	6180	42.1	-47 36	9.4	10.6	Mb	..	..	M	88	2443	42.5	-1 34	8.7	9.8	K2	3	..	22977b
39	5906	42.1	-48 52	9.2	9.8	G5	6	..	9453b	89	3214	42.5	-13 27	8.2	9.0	G5	6	..	19017b
40	5408	42.1	-50 40	8.5	9.0	Ao	4	E	13780b	90	3006	42.5	-22 26	9.8	10.2	Go	1	..	40282b
41	4022	42.1	-54 42	9.0	10.3	K5	1	..	37600b	91	7680	42.5	-27 14	8.4	9.3	G5	2	..	41399b
42	3773	42.1	-56 14	9.1	9.1	B8	4	..	40090b	92	7639	42.5	-32 36	8.8	9.4	Ao	2	..	41375b
43	3772	42.1	-56 26	8.9	8.8	Ao	4	..	40090b	93	6682	42.5	-36 49	8.3	8.9	Fo	4	..	41327b
44	3777	42.1	-57 1	var.	var.	Ko	2	R	40090b	94	6553	42.5	-43 45	7.8	8.4	Ao	4	..	43044b
45	2265	42.1	-61 5	8.6	8.3	B5	5	4.8	31521b	95	6187	42.5	-47 12	9.1	9.1	Go	2	..	9453b
46	1857	42.1	-61 58	9.4	9.4	B8	4	..	21154b	96	6186	42.5	-47 20	9.1	9.1	F5	3	..	9453b
47	1743	42.1	-62 21	9.4	9.2	B3	2	..	21154b	97	5913	42.5	-48 54	2.84	3.62	G5	..	R	28,205
48	2120	42.2	+37 26	9.7	10.3	Go	2	..	37582i	98	3901	42.5	-52 20	9.4	9.5	A5	3	..	37662b
49	2185	42.2	+35 9	9.3	10.1	G5	2	..	37582i	99	3900	42.5	-52 44	8.7	9.6	Ko	2	..	37662b
50	2408	42.2	+8 48	8.9	10.0	K2	1	..	38228i	100	2695	42.5	-58 55	8.4	8.5	B9	6	..	21154b

THE HENRY DRAPER CATALOGUE.

93500

10^h 42^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2672	42.5 ^{m.}	-59 30 ^o	9.1	8.8	B ₃	4	..	21154b	51	810	42.9 ^{m.}	+64 19 ^o	6.58	7.58	Ko	7	0,8	37346i
2	2671	42.5	-60 5	6.47	6.2	Ao	..	0,7	28,205	52	2273	42.9	+22 38	8.3	8.6	F ₂	3	..	37504i
3	2271	42.5	-60 18	8.9	9.1	Ao	4	R	21154b	53	8437	42.9	-28 29	8.6	9.5	F ₈	3	..	41399b
4	2272	42.5	-60 23	8.9	8.8	B ₉	5	R	21154b	54	8723	42.9	-31 5	7.20	8.5	Ma	4	..	13048b
5	1641	42.5	-63 31	8.3	9.5	K ₅	1	..	38834b	55	6736	42.9	-35 36	7.7	8.9	Ko	3	..	41375b
6	1475	42.5	-65 5	var.	var.	R ₅	2	R	38834b	56	6668	42.9	-39 17	9.5	9.6	Go	2	..	41327b
7	1494	42.5	-67 36	8.7	8.7	Ao	7	..	40297b	57	6124	42.9	-42 3	8.8	9.0	A ₃	6	0,2	15319b
8	2133	42.6	+25 59	9.2	10.2	Ko	1	..	38208i	58	5039	42.9	-51 27	8.6	9.6	K ₂	5	..	37600b
9	2280	42.6	+10 59	7.8	7.9	A ₃	6	..	38228i	59	3906	42.9	-52 52	9.8	10.4	Go	2	..	37600b
10	2414	42.6	+8 6	9.5	10.6	K ₂	1	..	13394b	60	4131	42.9	-53 12	8.5	9.7	K ₅	2	..	40250b
11	2414	42.6	+3 13	9.3	9.3	Ao	2	..	13378b	61	4029	42.9	-54 18	8.9	8.8	B	5	R	40250b
12	3152	42.6	-21 19	8.1	9.2	K ₂	6	..	40282b	62	3841	42.9	-55 25	10.0	10.0	Ao	3	..	37600b
13	5918	42.6	-48 36	9.0	9.6	A ₅	3	..	9453b	63	3800	42.9	-56 14	5.46	5.41	B ₈	..	0,9	56,128
14	5034	42.6	-51 43	10.9	10.4	Ao	2	..	37600b	64	3797	42.9	-56 35	8.5	9.7	K ₅	2	..	40090b
15	3902	42.6	-52 45	8.9	9.5	G ₅	3	..	37662b	65	1872	42.9	-61 52	9.9	9.9	B ₈	2	..	21154b
16	4024	42.6	-55 6	10.3	10.3	Ao	2	..	37600b	66	335	43.0	+80 6	9.0	9.5	F ₈	2	..	37465i
17	1642	42.6	-64 4	7.7	7.7	A	3	R	38834b	67	2411	43.0	+9 22	8.4	9.5	K ₂	2	..	38228i
18	1144	42.7	+62 38	9.4	10.2	G ₅	2	..	37716i	68	2363	43.0	+7 19	9.3	9.6	Fo	4	..	19611b
19	2047	42.7	+42 54	8.9	10.3	Ma	..	..	M	69	2416	43.0	+3 49	9.3	10.1	G ₅	1	..	13378b
20	2125	42.7	+41 40	8.1	8.9	G ₅	3	..	38640i	70	2417	43.0	+3 5	8.7	8.8	A ₂	4	..	37731i
21	2179	42.7	+38 6	6.89	6.72	B ₃	8	..	37582i	71	3232	43.0	-6 53	9.1	10.2	K ₂	1	..	13417b
22	2037	42.7	+33 25	9.3	9.6	F ₂	4	..	37582b	72	3005	43.0	-8 30	9.3	10.1	G ₅	1	..	13417b
23	3003	42.7	-8 58	8.7	8.7	Ao	2	..	13409b	73	6493	43.0	-42 16	8.4	8.7	Fo	6	5,3	15319b
24	3189	42.7	-14 35	7.04	8.11	K ₂	6	..	13130b	74	5539	43.0	-49 49	9.0	9.2	Ao	4	..	13780b
25	3188	42.7	-14 43	6.89	7.31	F ₅	7	..	13130b	75	5040	43.0	-51 37	9.6	9.6	Ao	4	..	37600b
26	3186	42.7	-14 44	6.46	6.46	Ao	10	..	13130b	76	2687	43.0	-59 33	9.6	9.4	B	2	..	40090b
27	3184	42.7	-15 5	7.41	7.91	F ₈	6	..	13130b	77	1498	43.0	-67 47	9.1	9.1	Ao	2	..	40075b
28	3154	42.7	-21 49	8.3	9.0	Ko	6	..	40282b	78	1027	43.0	-72 32	8.5	8.5	B ₉	6	..	40298b
29	9320	42.7	-24 54	9.5	10.4	G ₅	2	..	40282b	79	731	43.0	-74 18	8.4	8.4	B ₉	5	..	40298b
30	6294	42.7	-40 48	9.7	9.4	Go	1	..	41327b	80	732	43.0	-74 29	7.7	7.7	Ao	7	..	40298b
31	6389	42.7	-45 26	8.8	9.6	Go	2	..	15319b	81	446	43.1	+74 41	8.62	8.96	F ₂	5	..	37742i
32	5919	42.7	-48 18	9.4	9.5	B ₉	3	..	9453b	82	2020	43.1	+44 28	7.62	8.04	F ₅	6	..	38640i
33	5535	42.7	-50 4	9.1	9.8	G ₅	4	E	37600b	83	2274	43.1	+21 21	10.0	10.6	Go	2	..	37504i
34	3837	42.7	-55 15	9.3	9.4	A ₂	5	2,2	37600b	84	2310	43.1	+13 22	8.9	9.7	G ₅	1	..	38228i
35	3839	42.7	-55 32	9.3	10.3	Ko	2	..	37600b	85	2416	43.1	+8 18	9.3	10.5	K ₅	2	..	13394b
36	3794	42.7	-56 58	10.1	10.2	A ₂	1	..	40090b	86	3141	43.1	-9 27	8.3	9.4	K ₂	2	..	13409b
37	2698	42.7	-59 1	8.4	9.7	G ₅	2	7,2 R	40090b	87	2949	43.1	-11 38	8.2	9.3	K ₂	1	..	13409b
38	2679	42.7	-59 18	9.3	9.4	A ₃	2	0,2	21154b	88	3190	43.1	-14 26	8.7	9.7	Ko	2	..	13409b
39	1749	42.7	-62 46	6.8	7.8	Ko	6	5,7	31521b	89	3104	43.1	-19 48	8.1	8.4	Fo	7	..	40282b
40	1646	42.7	-63 59	5.54	5.42	B ₅	..	0,9	28,205	90	7256	43.1	-33 42	8.8	9.4	Fo	2	..	13048b
41	1625	42.8	+51 9	8.1	8.4	F ₂	2	..	38672i	91	6806	43.1	-44 24	9.4	9.3	F ₅	3	..	15319b
42	2299	42.8	+14 45	8.19	8.53	F ₂	4	..	38228i	92	3909	43.1	-52 36	8.5	9.5	G ₅	4	..	37662i
43	2415	42.8	+3 11	8.6	9.4	G ₅	2	..	13378b	93	4037	43.1	-54 22	9.9	9.9	B ₈	4	..	37600b
44	7251	42.8	-33 31	8.8	9.5	F ₈	1	..	41375b	94	4036	43.1	-54 58	9.6	10.2	Go	2	..	37600b
45	6685	42.8	-37 0	8.0	8.1	B ₉	7	..	41327b	95	3808	43.1	-56 52	9.5	9.5	B ₈	3	..	40090b
46	6556	42.8	-44 6	9.0	9.1	A ₂	5	..	15319b	96	3805	43.1	-57 1	9.0	8.8	B ₉	5	..	40090b
47	6803	42.8	-44 40	9.2	9.1	A ₂	5	..	15319b	97	3793	43.1	-57 26	8.6	9.1	Ao	3	..	40090b
48	4026	42.8	-54 33	9.7	10.2	F ₈	2	..	37600b	98	3794	43.1	-57 27	8.7	9.1	Ao	3	..	40090b
49	1649	42.8	-63 44	5.43	5.38	B ₈	..	0,8	28,205	99	2275	43.1	-60 40	9.0	9.1	B ₈	3	..	21154b
50	1372	42.8	-69 54	9.0	10.0	Ko	1	..	40075b	100	1654	43.1	-64 6	8.0	8.6	Go	3	..	38834b

93600

10^h 43^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	638	43.1	-76 43	9.1	10.1	Ko	3	..	21453b	51	1938	43.6	+27 21	8.8	9.8	Ko	1	..	38208i
2	2418	43.2	+3 1	8.7	9.3	G	3	..	13378b	52	2240	43.6	+21 26	8.7	9.5	G5	3	..	37504i
3	2950	43.2	-11 36	8.8	9.3	F8	2	..	13409b	53	2520	43.6	+20 20	9.7	10.3	Go	2	..	37504i
4	7257	43.2	-33 28	9.4	10.0	F2	1	..	41375b	54	2418	43.6	+8 45	8.1	9.1	Ko	2	..	38228i
5	6987	43.2	-34 30	8.8	9.2	F2	2	..	41375b	55	2446	43.6	-1 26	6.19	7.54	Ma	7	..	37731i
6	6674	43.2	-39 13	8.5	9.4	Ko	3	..	41327b	56	3157	43.6	-21 56	9.3	9.8	F5	3	..	40282b
7	1655	43.2	-63 52	5.10	4.98	B5	..	2.9	28,205	57	8536	43.6	-31 10	5.90	5.8	Ao	..	..	56,128
8	1412	43.2	-66 18	9.2	9.2	Ao	2	..	38834b	58	6815	43.6	-38 6	8.1	9.5	K5	2	..	41327b
9	1203	43.3	+61 5	9.4	9.4	A	2	..	37716i	59	5050	43.6	-51 38	10.5	9.8	Ao	3	..	37600b
10	1474	43.3	+55 49	9.0	9.5	F8	3	..	37717i	60	5051	43.6	-52 0	9.1	9.0	B8	7	..	37600b
11	2039	43.3	+32 57	8.2	9.0	G5	4	..	37582i	61	4048	43.6	-54 45	9.4	10.6	K5	1	..	37600b
12	2365	43.3	+7 32	8.5	9.7	K5	2	..	19611b	62	3821	43.6	-56 56	6.28	7.9	K5	2	..	43205b
13	2366	43.3	+6 49	9.7	10.2	F8	2	..	19611b	63	2048	43.7	+43 36	7.8	8.8	Ko	4	..	38640i
14	2419	43.3	+2 55	8.7	9.0	F2	4	..	13378b	64	2148	43.7	+41 54	7.8	8.4	Go	4	..	38640i
15	3218	43.3	-14 6	9.6	9.6	Ao	4	..	13409b	65	2359	43.7	+1 56	8.7	9.1	F5	2	..	13378b
16	6497	43.3	-42 56	9.1	9.9	K2	1	..	15319b	66	3116	43.7	-7 46	9.1	10.2	K2	2	..	13417b
17	3844	43.3	-55 23	9.4	10.0	Go	3	..	37600b	67	5056	43.7	-51 28	10.0	9.6	A2	6	..	37600b
18	3812	43.3	-56 38	9.1	9.1	B5	4	..	40090b	68	5053	43.7	-51 43	6.95	7.9	Ao	5	..	42159b
19	3810	43.3	-56 48	7.2	7.3	Ao	4	R	43205b	69	4145	43.7	-53 28	8.7	9.7	K5	3	..	40250b
20	2692	43.3	-59 16	9.2	9.1	B5	3	..	21154b	70	3823	43.7	-56 25	10.2	10.2	A	1	..	40090b
21	2693	43.3	-60 3	8.48	8.3	B9	4	0.6	31521b	71	1204	43.8	+61 8	7.9	8.7	G5	4	..	37716i
22	425	43.4	+75 34	8.82	9.24	F5	4	..	37742i	72	2125	43.8	+37 9	10.9	11.7	G5	2	..	37582i
23	630	43.4	+70 8	8.9	9.7	G5	2	..	37554i	73	3117	43.8	-8 13	9.3	10.4	K2	3	..	13417b
24	2124	43.4	+37 42	9.2	9.6	F5	3	..	37582i	74	9330	43.8	-24 38	9.5	9.8	F8	4	..	40282b
25	2408	43.4	+17 47	9.0	9.5	F8	2	..	37504i	75	6310	43.8	-40 46	9.2	9.6	Ko	2	..	41327b
26	8249	43.4	-25 53	8.1	8.3	Go	5	..	41399b	76	5547	43.8	-49 51	9.0	9.6	Ko	4	0.1	37600b
27	7260	43.4	-34 5	8.6	10.3	K5	1	..	41375b	77	5058	43.8	-51 48	9.0	9.2	A5	6	..	37600b
28	6745	43.4	-38 58	9.7	9.6	Ao	2	..	41327b	78	3919	43.8	-52 35	9.2	10.3	K2	4	..	37600b
29	3915	43.4	-52 50	9.8	11.2	Mb	2	..	37600b	79	3855	43.8	-55 8	9.4	10.8	Mb	1	..	37600b
30	4045	43.4	-54 10	8.3	8.8	Fo	6	..	40250b	80	3856	43.8	-55 27	8.0	9.1	Ko	7	0.3	37600b
31	3847	43.4	-55 16	9.55	9.4	B	4	..	37600b	81	3829	43.8	-56 58	8.9	10.0	K5	1	..	40090b
32	2696	43.4	-59 34	8.8	9.1	Bo	5	R	21154b	82	2715	43.8	-59 3	8.9	8.8	Ao	4	..	40090b
33	1504	43.4	-67 44	9.1	9.7	Go	1	..	40075b	83	2712	43.8	-60 5	8.24	8.0	B2	6	0.7	31521b
34	1123	43.4	-71 38	7.7	8.8	K2	5	..	40298b	84	1505	43.8	-65 23	7.6	7.4	B3	6	..	38834b
35	402	43.5	+76 32	7.14	7.22	A3	7	..	37465i	85	1292	43.9	+57 5	9.4	9.7	Fo	2	..	37716i
36	2072	43.5	+29 57	6.29	7.29	Ko	8	..	37582i	86	1991	43.9	+49 35	8.8	9.8	Ko	1	..	38672i
37	2367	43.5	+7 31	8.5	8.8	Fo	6	..	19611b	87	2208	43.9	+10 42	7.5	7.5	Ao	..	0.8	56,87
38	3221	43.5	-2 43	8.1	8.5	F5	6	..	22977b	88	3233	43.9	-6 39	8.9	9.9	Ko	1	..	13417b
39	3031	43.5	-18 42	8.8	9.6	G5	3	..	13130b	89	3158	43.9	-21 53	8.9	10.1	K2	2	..	40282b
40	3272	43.5	-20 38	8.27	8.6	A5	7	..	40282b	90	6136	43.9	-41 25	9.2	9.3	F5	3	..	41327b
41	8532	43.5	-31 30	9.3	9.4	F5	2	..	41375b	91	6210	43.9	-47 35	9.6	9.6	A2	3	..	9453b
42	5049	43.5	-51 48	11.5	10.1	Ao	3	..	37600b	92	5059	43.9	-51 47	8.9	8.9	Ao	8	..	37600b
43	3917	43.5	-52 44	9.8	10.4	G	2	..	37600b	93	3857	43.9	-55 56	8.9	9.5	A2	3	..	40090b
44	3849	43.5	-55 9	10.0	10.0	Ao	4	..	37600b	94	3834	43.9	-57 0	9.7	9.7	Ao	3	..	40090b
45	3817	43.5	-56 23	9.7	9.7	B9	2	..	40090b	95	2713	43.9	-59 21	6.69	5.8	B5	..	0.6	28,205
46	3803	43.5	-57 34	9.0	9.1	B8	4	..	40090b	96	1126	43.9	-71 51	9.5	10.0	F8	2	..	40298b
47	2703	43.5	-59 41	9.1	9.1	Ao	3	2.3	21154b	97	1294	44.0	+60 26	8.7	9.7	Ko	2	..	37716i
48	1660	43.5	-63 44	7.8	7.8	Ao	4	..	38834b	98	1818	44.0	+47 10	9.4	10.2	G5	2	..	38308i
49	1302	43.5	-68 41	6.63	7.4	A2	9	..	40075b	99	2074	44.0	+30 29	8.9	9.7	G5	2	..	38711i
50	1145	43.6	+62 15	9.0	9.6	G	2	..	37716i	100	2278	44.0	+22 14	9.0	9.0	Ao	4	..	37504i

THE HENRY DRAPER CATALOGUE.

93700

10^h 44^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2170	44.0	+16 23	8.9	9.3	F5	2	..	38666i	51	6217	44.3	-47 49	7.5	7.7	F2	9	..	9453b
2	2283	44.0	+11 4	5.27	5.27	Ao	..	..	56,87	52	5433	44.3	-50 47	10.2	10.1	Ao	2	..	3760ob
3	3118	44.0	-7 38	8.8	9.8	Ko	3	..	13417b	53	3929	44.3	-52 20	10.1	10.4	F2	2	R	3760ob
4	3010	44.0	-8 34	7.18	8.18	Ko	5	..	13409b	54	3927	44.3	-52 20	9.3	9.6	A3	3	..	37662b
5	6754	44.0	-38 18	8.8	8.7	A2	5	..	41327b	55	4059	44.3	-54 37	9.2	10.3	Fo	3	..	3760ob
6	5425	44.0	-50 24	9.6	10.1	G5	3	E	3760ob	56	4060	44.3	-54 47	10.2	10.0	K2	4	..	3760ob
7	3921	44.0	-52 18	9.9	10.4	F8	2	..	3760ob	57	3866	44.3	-55 23	9.7	9.7	B	5	2,2	3760ob
8	3922	44.0	-52 28	10.4	10.4	Ao	4	..	3760ob	58	3849	44.3	-56 13	10.0	10.0	Ao	1	..	4009ob
9	3923	44.0	-52 28	10.4	10.4	Ao	2	..	3760ob	59	1888	44.3	-61 30	8.4	8.5	A	5	0,3	21154b
10	4051	44.0	-54 50	10.2	10.2	B9	3	..	3760ob	60	1757	44.3	-62 22	9.6	9.7	Ao	2	..	21154b
11	3811	44.0	-57 40	9.7	9.7	Ao	3	..	4009ob	61	1129	44.3	-71 56	10.0	10.0	A2	2	..	40298b
12	2717	44.0	-58 10	9.0	8.6	Ao	5	..	4009ob	62	1436	44.4	+52 49	7.8	8.1	Ao	3	..	37717i
13	2720	44.0	-58 34	9.4	9.4	Ao	3	..	4009ob	63	2166	44.4	+34 32	9.0	9.8	Fo	3	..	37582i
14	1670	44.0	-64 2	6.6	6.4	B3	9	..	38834b	64	1931	44.4	+28 31	6.12	6.54	G5	8	..	38208i
15	170	44.0	-87 38	9.2	10.3	K2	2	..	22578b	65	2410	44.4	+18 36	9.3	9.8	F5	2	..	37504i
16	2522	44.1	+20 32	10.0	10.8	G5	1	..	37504i	66	2954	44.4	-4 57	8.8	9.1	F8	7	..	13417b
17	2279	44.1	+17 41	7.17	8.17	Ko	5	..	37504i	67	8259	44.4	-25 43	10.3	9.8	Fo	3	..	40282b
18	2368	44.1	+7 17	8.5	9.3	G5	6	..	19611b	68	8629	44.4	-29 58	8.6	9.1	F5	2	..	13048b
19	2952	44.1	-4 52	7.85	8.85	Ko	7	..	13417b	69	8743	44.4	-30 13	7.36	8.5	A5	5	..	13048b
20	6824	44.1	-37 12	9.5	9.5	A	2	..	41327b	70	6757	44.4	-35 25	8.8	9.2	Ko	2	..	41375b
21	6565	44.1	-43 51	7.9	8.2	B9	4	..	43044b	71	6313	44.4	-40 55	9.4	9.3	A5	1	..	41327b
22	6467	44.1	-46 31	9.4	8.7	A2	4	..	9453b	72	6219	44.4	-47 13	6.60	7.8	Ko	9	..	9453b
23	2722	44.1	-59 8	8.1	8.3	B5	5	..	4009ob	73	3869	44.4	-56 6	8.5	8.6	G5	7	2,2	4009ob
24	1885	44.1	-61 28	8.9	9.1	B	3	..	21154b	74	3855	44.4	-56 18	9.0	10.2	Ao	1	..	4009ob
25	1508	44.1	-65 24	8.6	8.7	A5	3	..	38834b	75	2725	44.4	-60 7	9.54	9.2	K5	3	..	21154b
26	670	44.2	+66 48	9.4	9.8	F5	2	..	37346i	76	1675	44.4	-63 21	8.2	9.2	Ao	2	..	38834b
27	1513	44.2	+51 47	8.6	9.8	K5	1	..	38672i	77	768	44.4	-73 55	9.8	9.8	Ko	2	..	40298b
28	2385	44.2	+3 58	7.9	8.0	A2	7	..	37731i	78	554	44.4	-79 57	5.48	7.1	Ao	..	0,8 R	28,205
29	2448	44.2	-2 14	8.57	9.57	Ko	4	..	22977b	79	2050	44.5	+43 33	9.4	10.4	Ko	1	..	38308i
30	3193	44.2	-14 38	8.3	8.7	F5	6	..	13130b	80	2265	44.5	+23 43	8.0	8.4	Ko	5	..	37504i
31	7699	44.2	-27 23	6.92	7.3	A2	7	..	41399b	81	2957	44.5	-11 26	8.3	9.4	F5	3	..	13409b
32	6826	44.2	-37 32	8.5	8.9	F8	3	..	41327b	82	3276	44.5	-20 53	9.6	10.1	K2	1	..	40282b
33	5063	44.2	-51 16	8.2	9.2	Ko	6	..	3760ob	83	3012	44.5	-22 22	9.8	10.1	Go	1	..	40282b
34	5065	44.2	-51 57	9.4	9.6	F5	5	..	3760ob	84	8159	44.5	-26 17	7.48	7.8	F8	1	..	41399b
35	4147	44.2	-53 18	10.0	10.0	Ao	3	..	37662b	85	8455	44.5	-28 36	9.5	10.2	F2	7	..	41399b
36	3843	44.2	-56 55	9.4	9.4	B9	3	..	4009ob	86	8631	44.5	-30 7	8.20	8.2	Ko	1	..	13048b
37	2720	44.2	-59 24	6.12	6.1	A2p	..	0,6 R	28,205	87	7661	44.5	-32 52	9.9	10.0	G5	4	..	41375b
38	1672	44.2	-63 44	6.4	6.4	Ao	10	..	38834b	88	6831	44.5	-37 47	8.09	8.6	F5	1	..	41327b
39	1305	44.2	-68 55	6.68	6.2	B8	9	..	40075b	89	3930	44.5	-52 48	8.9	9.5	Ko	5	..	37662b
40	671	44.3	+67 6	7.9	7.9	Ao	4	2,3	37346i	90	4150	44.5	-53 37	9.2	10.0	G5	3	..	37662b
41	2264	44.3	+23 22	8.8	9.4	Go	3	..	37504i	91	3860	44.5	-56 28	9.4	9.4	G5	2	..	4009ob
42	2999	44.3	-3 30	6.49	6.55	A2	10	..	22977b	92	3821	44.5	-57 39	9.4	9.5	B9	4	..	4009ob
43	3011	44.3	-22 26	9.1	10.1	Go	2	..	40282b	93	2733	44.5	-58 41	8.9	9.4	A2	3	..	4009ob
44	8451	44.3	-28 34	8.21	8.9	Ko	4	..	41399b	94	2734	44.5	-59 1	8.7	8.9	K5	1	..	4009ob
45	8738	44.3	-30 32	7.55	8.2	F8	6	..	13048b	95	1759	44.5	-63 6	8.9	9.5	B	2	..	4009ob
46	6706	44.3	-36 37	9.5	9.5	F2	2	..	41327b	96	2128	44.6	+36 39	7.73	7.81	Go	1	R	38834b
47	6756	44.3	-38 58	10.8	10.1	Ao	2	..	41327b	97	2251	44.6	+14 49	8.74	9.81	A3	8	..	37582i
48	6686	44.3	-39 8	9.9	9.7	F5	1	..	41327b	98	2486	44.6	+1 29	8.3	9.4	K2	1	..	38228i
49	6505	44.3	-42 54	9.0	9.0	Fo	4	..	15319b	99	3235	44.6	-6 14	9.1	10.1	K2	3	..	13378b
50	6822	44.3	-44 47	7.9	8.4	A3	7	..	15319b	100						Ko	2	..	13417b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

93800

10^h 44^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3013	44.6	-22 34	8.7	9.5	Ko	4	..	40282b	51	6480	44.9	-46 12	10.2	9.7	Ao	1	..	9453b
2	8745	44.6	-30 59	8.2	8.5	G5	3	..	13048b	52	5954	44.9	-49 4	9.0	8.9	Ao	4	..	9453b
3	7002	44.6	-34 26	8.3	9.3	G5	3	..	41375b	53	3934	44.9	-52 53	10.3	10.6	Fo	3	..	37600b
4	6572	44.6	-43 16	8.6	8.7	A5	5	..	15319b	54	4155	44.9	-53 14	9.4	10.6	K5	2	..	37600b
5	3932	44.6	-52 15	10.2	10.3	A2	4	..	37600b	55	4067	44.9	-54 11	9.5	9.5	B8	3	..	37662b
6	3931	44.6	-53 4	10.1	10.4	F2	3	..	37600b	56	3876	44.9	-56 5	8.9	10.3	Mb	2	..	40090b
7	3825	44.6	-57 9	7.2	8.5	K5	1	..	43205b	57	3871	44.9	-56 44	8.6	8.8	A3	5	..	40090b
8	3827	44.6	-57 28	9.3	10.3	K	1	..	40090b	58	2735	44.9	-60 4	9.38	9.1	B8	3	..	21154b
9	1890	44.6	-62 2	7.4	8.3	A5	5	2,5	31521b	59	1294	45.0	+57 7	5.76	6.54	G5	9	..	37717i
10	1414	44.7	+55 1	8.8	9.3	F8	3	..	37717i	60	2076	45.0	+32 34	7.48	7.90	F5	8	..	37582i
11	1514	44.7	+52 20	8.2	9.0	G5	2	..	37717i	61	1942	45.0	+27 3	8.9	9.9	Ko	2	..	38208i
12	3133	44.7	-10 35	8.9	9.2	Fo	1	..	13409b	62	2423	45.0	+3 0	8.5	9.6	K2	2	..	37731i
13	3138	44.7	-15 40	3.32	4.32	Ko	..	0,5 R	6545c	63	2487	45.0	+1 32	8.5	9.5	Ko	2	..	13378b
14	3161	44.7	-21 38	8.8	9.2	Go	4	..	40282b	64	3237	45.0	-6 57	7.9	8.9	Ko	6	..	13417b
15	7703	44.7	-27 24	9.3	9.8	A2	2	..	41399b	65	3223	45.0	-13 29	8.9	10.1	K5	1	..	13409b
16	8634	44.7	-30 1	8.30	8.0	A3	5	..	13048b	66	6322	45.0	-41 3	8.9	9.0	Go	2	..	41327b
17	8554	44.7	-31 46	8.3	9.4	K2	2	..	41375b	67	6153	45.0	-41 16	8.2	9.0	Ko	4	..	41327b
18	5561	44.7	-49 8	9.1	9.3	Ao	4	..	9453b	68	6576	45.0	-43 45	7.9	8.1	Ao	3	..	43044b
19	5436	44.7	-51 0	9.1	10.1	Ko	2	..	37600b	69	6483	45.0	-46 12	11.5	9.6	Ao	1	..	9453b
20	4151	44.7	-53 11	9.5	9.5	B9	4	..	37662b	70	5566	45.0	-49 44	8.0	8.9	G5	4	..	9453b
21	4064	44.7	-54 50	7.4	7.9	B9	3	..	43205b	71	4159	45.0	-53 15	10.3	10.3	B9	2	..	37600b
22	3871	44.7	-56 3	8.9	9.7	G5	2	..	40090b	72	4070	45.0	-55 1	9.65	9.7	Fo	3	..	37662b
23	3831	44.7	-57 13	9.7	9.7	Ao	2	..	40090b	73	2747	45.0	-58 55	7.9	7.9	Bo	5	..	40090b
24	3830	44.7	-57 16	9.7	9.7	A	2	..	40090b	74	1682	45.0	-63 18	8.1	8.1	Ao	6	..	38834b
25	3828	44.7	-57 53	9.0	10.0	Ko	2	..	40090b	75	1296	45.1	+59 51	5.66	6.66	Ko	8	0,10	37717i
26	3829	44.7	-58 3	9.7	9.7	Ao	3	..	40090b	76	2137	45.1	+26 11	7.9	8.3	F5	6	..	38208i
27	2298	44.7	-60 24	8.9	9.2	B	2	..	21154b	77	2419	45.1	+8 5	10.7	11.3	G	2	..	19611b
28	639	44.7	-77 5	10.0	10.3	F2	4	..	21453b	78	2408	45.1	+4 50	9.06	10.13	K2	2	..	19611b
29	2136	44.8	+26 5	9.3	9.9	Go	2	..	38208i	79	3230	45.1	-2 40	8.8	9.9	K2	3	..	22977b
30	2210	44.8	+10 22	8.9	9.3	F5	4	..	19611b	80	9342	45.1	-24 14	9.5	10.7	F8	3	..	40282b
31	2451	44.8	-1 25	8.5	9.7	K5	2	..	22977b	81	8752	45.1	-30 52	8.6	9.1	Ko	2	..	13048b
32	2450	44.8	-2 9	8.47	9.47	Ko	3	..	22977b	82	7007	45.1	-34 25	9.4	8.9	Ao	4	..	41375b
33	3147	44.8	-9 19	6.04	7.04	Ko	9	..	13409b	83	6768	45.1	-35 21	10.1	9.5	Fo	2	R	41375b
34	3148	44.8	-9 43	8.6	9.6	Ko	1	..	13409b	84	6233	45.1	-47 10	10.0	9.6	A3	2	..	9453b
35	8461	44.8	-28 16	8.6	10.9	K2	1	..	41399b	85	5075	45.1	-52 5	10.9	10.7	Ao	2	..	37600b
36	6765	44.8	-35 45	8.8	9.5	Ko	1	..	41327b	86	4163	45.1	-53 19	9.4	10.6	K5	2	..	37600b
37	6761	44.8	-38 39	7.10	7.5	Ao	8	..	41327b	87	4161	45.1	-53 54	10.6	10.6	Ao	2	..	37600b
38	6763	44.8	-39 2	9.9	9.9	Ko	1	..	41327b	88	3837	45.1	-57 9	9.0	9.1	A3	5	..	40090b
39	6418	44.8	-45 58	8.2	9.3	Ko	3	..	9453b	89	2749	45.1	-58 16	8.7	9.7	Ko	2	..	40090b
40	6478	44.8	-46 15	7.1	8.4	B2	7	..	9453b	90	2750	45.1	-58 22	8.8	9.4	B	1	..	40090b
41	4152	44.8	-53 55	9.8	10.8	Ko	2	..	37600b	91	1896	45.1	-61 28	8.8	10.3	K5	1	..	21154b
42	2734	44.8	-59 37	9.1	9.1	A	3	..	21154b	92	1684	45.1	-63 31	8.6	9.0	F5	2	..	38834b
43	2732	44.8	-59 42	7.4	7.1	Oe5	..	0,7 R	28,205	93	1131	45.1	-71 55	9.2	10.3	K2	1	..	40298b
44	2300	44.8	-60 37	8.4	8.3	Ao	6	1,4 R	21154b	94	633	45.2	+70 16	8.6	9.2	Go	3	..	37554i
45	556	44.8	-80 1	4.62	4.45	B3	..	R	28,205	95	7009	45.2	-34 30	9.5	9.2	Ao	2	..	41375b
46	1295	44.9	+60 42	8.1	8.4	Fo	4	..	37716i	96	4164	45.2	-53 36	9.5	9.5	B9	3	..	37662b
47	1293	44.9	+56 46	7.34	7.32	B9	7	..	37717i	97	4165	45.2	-54 4	10.2	10.2	B9	4	..	37600b
48	2312	44.9	+13 21	8.7	9.7	Ko	2	..	38228i	98	3838	45.2	-57 26	7.6	7.9	B9	3	..	43205b
49	8636	44.9	-29 28	7.82	8.2	Go	7	..	41399b	99	1148	45.3	+62 2	9.0	9.3	F	2	..	37716i
50	6152	44.9	-41 50	7.2	7.8	K2	4	..	43044b	100	1770	45.3	+49 57	9.6	10.4	G5	1	..	38672i

THE HENRY DRAPER CATALOGUE.

93900

10^h 45^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2279	45.3	+23 57	6.60	6.74	A5	7	0,7	38208i	51	8647	45.6	-30 1	9.25	10.2	K2	1	..	41399b
2	2288	45.3	+10 52	8.7	10.1	Ma	..	..	M	52	5450	45.6	-50 52	10.0	10.2	Ao	3	..	37600b
3	3018	45.3	- 8 22	5.78	5.84	A2	10	..	13409b	53	4079	45.6	-51 46	10.5	10.7	Ko	2	..	37600b
4	3017	45.3	- 8 27	7.9	8.9	Ko	2	..	13409b	54	3942	45.6	-52 59	10.4	10.4	Ao	3	..	37600b
5	7288	45.3	-33 32	5.73	5.6	Ao	..	0,10	56,128	55	4171	45.6	-54 6	9.3	10.3	Ko	2	..	37600b
6	6771	45.3	-35 17	7.26	7.3	Ao	6	..	41375b	56	4076	45.6	-54 38	9.0	10.0	Ko	3	..	37600b
7	5444	45.3	-50 57	9.8	10.1	Ao	3	..	37600b	57	3889	45.6	-55 33	10.3	10.3	Ao	2	..	37600b
8	5076	45.3	-51 9	8.2	9.3	Ko	5	..	37600b	58	2761	45.6	-59 46	8.7	8.8	Go	5	..	21154b
9	3936	45.3	-52 17	8.7	9.0	A5	5	..	37662b	59	1521	45.6	-67 47	9.5	9.5	Ao	1	..	40075b
10	4167	45.3	-53 24	9.3	9.4	A5	4	..	37662b	60	1320	45.6	-68 14	8.6	8.6	B8	2	..	40075b
11	2746	45.3	-59 39	8.9	8.5	B5	5	R	21154b	61	2052	45.7	+42 46	8.9	9.9	Ko	1	..	38308i
12	2307	45.3	-60 11	9.28	9.2	A5	3	..	21154b	62	2138	45.7	+26 30	9.7	10.7	Ko	1	..	38208i
13	1423	45.3	-66 47	8.2	8.0	B3	8	..	40075b	63	2139	45.7	+26 10	9.0	9.8	G5	2	..	38208i
14	1212	45.3	-70 35	8.8	9.8	Ko	1	..	39946b	64	2306	45.7	+24 59	8.6	9.0	F5	4	..	38208i
15	1822	45.4	+47 20	7.8	8.6	G5	4	..	38308i	65	2246	45.7	+21 22	9.7	10.3	Go	2	..	37504i
16	1935	45.4	+28 3	9.7	10.7	K	1	..	38208i	66	2175	45.7	+16 35	7.6	8.1	F8	4	..	37504i
17	2452	45.4	- 2 9	8.87	9.87	Ko	1	..	22977b	67	2363	45.7	+ 6 7	7.9	8.4	F8	2	..	37731i
18	3151	45.4	- 6 8	8.5	9.0	F8	5	..	13417b	68	3135	45.7	-16 33	9.6	10.2	G	2	..	46201b
19	3198	45.4	-14 27	9.1	9.4	F2	2	..	13130b	69	9348	45.7	-24 27	10.3	11.8	K2	1	..	40282b
20	8165	45.4	-26 20	9.5	10.4	Go	2	..	40282b	70	6778	45.7	-35 58	8.8	9.3	Ko	1	..	41327b
21	5445	45.4	-50 32	8.4	9.6	K2	1	..	9453b	71	6725	45.7	-36 24	9.5	9.2	B9	1	..	41327b
22	4074	45.4	-54 18	9.8	10.3	F8	2	..	37600b	72	6849	45.7	-37 9	8.8	9.8	G5	1	..	41327b
23	2750	45.4	-59 12	8.9	9.1	Ao	6	R	21154b	73	3944	45.7	-52 34	9.7	10.1	F5	4	..	37600b
24	1898	45.4	-61 18	8.1	8.9	B5	3	2,7	31521b	74	4082	45.7	-54 18	10.3	10.3	Ao	2	..	37600b
25	1688	45.4	-63 44	8.7	8.7	A	1	..	38834b	75	4080	45.7	-54 20	9.0	10.3	Ma	2	..	37600b
26	1317	45.4	-69 5	9.1	9.1	Ao	1	..	40075b	76	4079	45.7	-54 55	9.3	10.3	Ko	1	..	37662b
27	1417	45.5	+55 46	9.0	9.5	F8	2	..	37717i	77	1771	45.7	-62 18	9.7	9.7	Ao	2	..	21154b
28	2315	45.5	+12 48	8.3	9.3	Ko	3	..	38228i	78	1036	45.7	-72 52	8.6	9.8	K5	2	..	40298b
29	2265	45.5	+11 56	8.7	9.7	Ko	2	..	38228i	79	338	45.8	+79 53	7.87	8.87	Ko	4	..	37465i
30	2957	45.5	- 5 4	9.6	9.9	Fo	3	..	13417b	80	2280	45.8	+24 3	9.2	9.8	Go	2	..	38208i
31	3124	45.5	- 7 56	8.5	9.6	K2	5	..	13417b	81	2410	45.8	+ 5 34	8.5	9.7	K5	4	..	19611b
32	3199	45.5	-14 34	8.1	8.7	Go	6	..	13130b	82	2388	45.8	+ 4 8	7.11	7.17	A2	8	..	37731i
33	3244	45.5	-17 31	8.7	9.5	G5	3	..	46201b	83	7293	45.8	-33 19	7.62	8.8	Ko	6	..	41375b
34	3277	45.5	-20 51	9.2	9.8	K2	2	..	40282b	84	6775	45.8	-39 5	9.1	9.6	Fo	1	..	41327b
35	6722	45.5	-36 15	8.8	9.3	F8	2	..	41327b	85	5081	45.8	-51 46	9.4	9.8	Ko	5	..	37600b
36	6331	45.5	-40 26	8.2	8.5	Go	6	..	41327b	86	4177	45.8	-53 34	10.1	10.2	A2	2	..	37600b
37	6835	45.5	-45 5	8.63	9.1	Ko	2	..	9376b	87	3853	45.8	-57 13	9.2	10.0	G5	1	..	40090b
38	6240	45.5	-47 14	8.6	8.8	F8	5	..	9453b	88	2765	45.8	-59 38	9.1	9.7	K2	2	0,1	40090b
39	3941	45.5	-53 6	9.5	10.6	K2	3	..	37600b	89	1904	45.8	-61 31	8.3	8.6	B8	6	1,3	21154b
40	4170	45.5	-54 6	10.8	10.8	Ao	2	..	37600b	90	1523	45.8	-67 50	7.9	8.9	Ko	3	..	40075b
41	4075	45.5	-54 28	10.2	10.3	A2	2	..	37600b	91	1482	45.9	+55 53	7.9	8.2	Fo	5	..	37717i
42	2754	45.5	-58 15	9.4	9.4	Ao	2	..	40090b	92	2127	45.9	+37 20	8.6	8.7	A5	5	..	37582i
43	2755	45.5	-58 48	6.10	6.10	Ao	..	0,8	28,205	93	2266	45.9	+12 7	6.83	7.83	Ko	7	..	38228i
44	1424	45.5	-67 3	9.0	9.0	B9	5	..	40075b	94	2375	45.9	+ 7 17	8.3	8.3	Ao	9	..	19611b
45	354	45.6	+80 53	9.1	9.9	G5	1	..	37465i	95	2364	45.9	+ 6 35	8.9	10.1	K5	1	..	19611b
46	1629	45.6	+50 48	8.5	8.5	Ao	3	R	38672i	96	3140	45.9	-16 5	9.2	10.2	Ko	1	..	46201b
47	2153	45.6	+42 6	8.3	9.3	Ko	3	..	38308i	97	3114	45.9	-19 30	8.5	9.2	Fo	5	..	40282b
48	2129	45.6	+36 23	9.0	9.6	Go	3	..	37582i	98	9352	45.9	-24 50	10.7	11.3	G	1	..	40282b
49	2374	45.6	+ 7 24	8.5	8.5	Ao	8	..	19611b	99	9350	45.9	-25 0	8.90	10.2	Ko	3	..	40282b
50	3239	45.6	- 6 14	9.1	9.6	F8	2	..	13417b	100	8650	45.9	-29 51	10.3	9.5	A2	2	..	41399b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

94000

10^h 45^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8575	45.9	-31 40	9.0	9.4	A2	1	..	41375b	51	3948	46.2	-52 19	10.3	10.4	A2	3	..	37600b
2	6851	45.9	-37 52	9.1	9.5	K2	1	..	41327b	52	4089	46.2	-54 41	9.1	9.5	B9	3	..	37662b
3	6248	45.9	-47 26	9.8	9.7	F8	1	..	9453b	53	3901	46.2	-55 19	9.3	10.3	Ko	2	..	37600b
4	5083	45.9	-51 36	10.0	10.2	Ko	3	..	37600b	54	2769	46.2	-59 1	8.4	8.6	B8	5	R	21154b
5	4178	45.9	-54 6	10.2	10.3	A2	3	..	37600b	55	1937	46.3	+27 51	9.6	10.6	Ko	1	..	38208i
6	4086	45.9	-54 38	10.2	10.2	Ao	3	..	37600b	56	2305	46.3	+14 13	7.9	8.0	A2	4	..	38228i
7	3895	45.9	-55 10	10.4	10.2	B	3	..	37600b	57	2420	46.3	+8 28	8.5	9.0	F8	3	..	38228i
8	1323	45.9	-68 13	9.1	9.4	F	1	R	40075b	58	3005	46.3	-4 12	7.36	8.43	K2	7	..	22977b
9	210	45.9	-86 22	7.62	8.5	G5	6	..	13459b	59	3230	46.3	-13 16	8.7	9.8	K2	1	..	13409b
10	805	46.0	+65 19	8.8	8.9	A5	3	..	37346i	60	6783	46.3	-35 15	8.18	8.6	K2	3	..	41375b
11	1332	46.0	+58 56	9.6	10.2	G	2	..	37716i	61	5591	46.3	-50 5	8.58	9.1	K5	2	..	9453b
12	2212	46.0	+9 46	7.82	8.32	F8	4	..	38228i	62	3953	46.3	-52 42	9.2	10.2	Ko	4	..	37600b
13	2490	46.0	+1 18	8.1	8.2	A2	4	..	37731i	63	3905	46.3	-55 49	8.5	8.8	B9	5	..	37662b
14	3236	46.0	-2 33	6.18	7.25	K2	8	..	22977b	64	3861	46.3	-57 26	9.7	9.7	Ao	2	..	40090b
15	3021	46.0	-8 21	8.5	8.6	A2	5	..	13409b	65	1905	46.3	-61 17	9.1	8.5	B5	7	..	21154b
16	3202	46.0	-14 21	7.52	7.86	F2	7	..	13130b	66	1699	46.3	-64 1	7.8	7.7	B5	6	..	38834b
17	7296	46.0	-33 29	8.9	9.7	G5	1	..	41375b	67	1149	46.4	+62 40	8.9	9.7	G5	2	..	37716i
18	6337	46.0	-40 40	9.9	10.2	G5	2	R	41327b	68	1483	46.4	+56 42	9.1	9.6	F8	2	..	37717i
19	5968	46.0	-48 35	7.9	8.9	Ko	6	..	9453b	69	2079	46.4	+31 54	7.8	8.4	Go	6	..	37582i
20	4180	46.0	-53 28	9.9	10.3	F5	2	..	37600b	70	2389	46.4	+3 55	9.3	10.3	Ko	2	..	19611b
21	4179	46.0	-53 53	10.0	10.0	Ao	3	..	37600b	71	2706	46.4	+0 2	8.9	9.3	F5	3	..	22977b
22	3898	46.0	-55 56	9.1	9.1	B8	3	..	37662b	72	3280	46.4	-12 17	8.1	9.3	K5	1	..	13409b
23	3892	46.0	-56 23	8.9	10.0	K2	2	..	40090b	73	3280	46.4	-21 0	7.97	9.2	K5	4	..	40282b
24	3856	46.0	-57 21	8.6	8.8	B2	5	..	40090b	74	6169	46.4	-41 24	9.9	9.6	Fo	3	..	41327b
25	688	46.0	-75 15	9.24	10.4	Ma	1	..	40298b	75	4093	46.4	-54 45	9.4	10.0	Go	1	..	37662b
26	2079	46.1	+29 47	8.36	9.43	K2	3	..	38711i	76	4092	46.4	-55 4	9.5	9.5	Ao	3	..	37662b
27	2281	46.1	+23 56	9.3	10.1	G5	2	E	37504i	77	3907	46.4	-55 27	9.0	8.8	B9	5	..	37662b
28	2247	46.1	+20 49	8.1	8.5	F5	5	..	37504i	78	2773	46.4	-59 39	9.1	9.1	B8	4	..	21154b
29	2385	46.1	+19 42	9.60	9.66	G	2	..	37504i	79	2772	46.4	-60 7	8.78	8.3	Ao	3	1,7	31521b
30	2418	46.1	+9 42	7.72	8.79	K2	3	..	38228i	80	1330	46.4	-68 33	9.4	9.7	Fo	1	..	40075b
31	2426	46.1	+3 15	7.9	9.0	K2	4	..	37731i	81	736	46.4	-74 18	9.1	9.2	A3	3	..	40298b
32	3142	46.1	-15 59	10.0	11.0	Ko	1	..	46201b	82	737	46.4	-74 50	9.2	9.8	Go	2	..	40298b
33	9357	46.1	-24 50	10.7	10.7	Ao	2	..	40282b	83	1439	46.5	+53 6	6.72	7.72	Ko	3	5,5	38665i
34	7297	46.1	-33 57	7.7	8.2	Fo	5	..	41375b	84	1440	46.5	+53 3	6.58	7.58	Ko	3	0,7	38665i
35	3949	46.1	-53 1	9.7	10.8	K2	3	..	37600b	85	2054	46.5	+43 26	8.6	9.6	Ko	2	..	38308i
36	2311	46.1	-60 14	9.44	9.7	G5	1	..	21154b	86	2046	46.5	+33 34	8.9	9.5	Go	4	..	37582i
37	2312	46.1	-60 46	8.9	9.1	Ao	4	..	21154b	87	2047	46.5	+33 10	7.76	8.94	K5	5	..	37582i
38	1326	46.1	-68 47	8.9	9.7	G5	1	..	40075b	88	2387	46.5	+19 15	8.5	9.7	K5	2	..	37504i
39	506	46.2	+72 56	9.0	9.6	Go	3	..	38663i	89	2307	46.5	+14 7	7.9	8.9	Ko	4	..	38228i
40	1632	46.2	+50 48	7.00	8.07	K2	6	2,5	38672i	90	3143	46.5	-16 6	9.8	10.2	F5	2	..	46201b
41	2045	46.2	+32 58	9.2	9.8	Go	3	..	37582i	91	3167	46.5	-21 46	10.0	10.1	Fo	1	..	40282b
42	3004	46.2	-3 50	9.3	9.8	F8	3	..	22977b	92	7723	46.5	-27 22	8.3	10.6	K5	1	..	41399b
43	2963	46.2	-5 7	9.10	9.44	F2	4	..	13417b	93	8584	46.5	-31 54	8.2	9.4	Go	2	..	41375b
44	3153	46.2	-5 21	8.85	9.35	F8	5	..	13417b	94	5596	46.5	-50 0	9.04	9.0	G5	1	..	9453b
45	3136	46.2	-16 57	8.8	9.8	Ko	1	..	13130b	95	5089	46.5	-51 37	10.9	10.5	A2	2	..	37600b
46	3245	46.2	-17 48	6.55	6.55	Ao	10	..	13130b	96	2775	46.5	-59 27	7.7	9.4	Ma	3	0,3-	40090b
47	8578	46.2	-31 24	8.2	9.1	Ao	3	..	41375b	97	1908	46.5	-62 6	7.3	7.2	B8	3	0,8	43205b
48	7687	46.2	-32 13	8.8	9.4	A5	2	..	41375b	98	339	46.6	+80 44	8.7	9.3	Go	2	..	37465i
49	6736	46.2	-36 54	9.5	9.3	Ao	2	..	41327b	99	1208	46.6	+61 37	9.4	10.0	G	2	..	37716i
50	6251	46.2	-47 26	10.9	9.7	A	1	..	9453b	100	2455	46.6	-1 56	8.7	9.2	F8	4	..	22977b

THE HENRY DRAPER CATALOGUE.

94100

10^h 46^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2454	46.6	- 2 4	8.5	9.7	K5	4	..	22977b	51	3168	46.9	-21 32	7.9	8.6	G5	7	..	40282b
2	3016	46.6	-23 10	8.8	9.5	G5	3	..	40282b	52	7305	46.9	-34 1	8.5	10.2	Ma	1	..	41375b
3	7724	46.6	-28 6	var.	var.	Md	..	R	M	53	5094	46.9	-51 48	10.5	10.2	A2	3	..	37600b
4	7691	46.6	-33 3	8.2	8.8	F2	4	..	41375b	54	3961	46.9	-52 13	9.5	10.5	Ko	3	..	37600b
5	6741	46.6	-36 26	7.74	8.7	Ko	5	..	41327b	55	3963	46.9	-52 49	9.8	9.9	A5	5	..	37600b
6	6439	46.6	-45 9	9.13	9.4	G5	1	..	9376b	56	4189	46.9	-53 49	10.2	10.0	B3	4	..	37600b
7	6259	46.6	-47 33	9.4	10.4	K	1	..	9453b	57	4100	46.9	-54 14	9.3	10.3	Ko	3	..	37600b
8	5091	46.6	-51 56	7.9	7.4	B8	6	..	37662b	58	3873	46.9	-57 37	10.1	10.2	A5	2	..	40090b
9	3957	46.6	-52 59	9.8	10.8	Ko	2	..	37600b	59	2781	46.9	-59 33	9.1	9.1	B8	3	..	40090b
10	4187	46.6	-53 36	9.6	10.6	Ko	1	..	37600b	60	2320	46.9	-60 16	9.38	8.9	A3	4	..	21154b
11	3911	46.6	-55 24	9.4	9.5	A2	2	..	37662b	61	687	47.0	+65 57	8.5	8.8	F	2	..	37346i
12	3867	46.6	-57 19	9.0	9.4	F2	4	..	40090b	62	2386	47.0	+38 52	7.53	7.95	F5	6	..	37582i
13	3868	46.6	-57 40	9.2	9.7	F8	3	..	40090b	63	2318	47.0	+13 38	8.4	9.4	Ko	2	..	38228i
14	1909	46.6	-61 41	9.1	9.1	Ao	2	..	38834b	64	2422	47.0	+ 8 0	7.9	8.7	G5	3	..	38228i
15	1702	46.6	-63 27	8.3	9.3	Ko	1	..	38834b	65	7029	47.0	-34 52	9.1	9.3	Fo	3	..	41375b
16	170	46.7	+84 53	8.68	9.46	G5	2	..	38332i	66	6178	47.0	-41 15	8.1	8.2	Ao	6	2,2	41327b
17	1519	46.7	+52 36	6.93	7.27	F2	7	..	37717i	67	3965	47.0	-52 45	10.2	10.2	Ao	4	..	37600b
18	1670	46.7	+46 20	7.07	7.13	A2	7	..	38308i	68	3964	47.0	-53 3	9.6	11.0	Ma	1	..	37600b
19	1671	46.7	+45 50	8.1	9.1	Ko	2	..	38308i	69	4191	47.0	-53 15	9.8	10.8	Ko	1	..	37600b
20	2180	46.7	+16 38	7.9	8.3	F5	4	..	37504i	70	3914	47.0	-55 10	9.9	10.3	F5	3	..	37600b
21	2422	46.7	+ 8 58	10.0	11.0	Ko	2	..	19611b	71	3915	47.0	-56 12	9.2	10.2	Ko	1	..	40090b
22	3238	46.7	- 3 8	8.9	9.9	Ko	2	..	22977b	72	2782	47.0	-59 20	9.4	9.4	Ao	3	1,2	21154b
23	3129	46.7	- 7 32	8.7	9.1	F5	6	..	13417b	73	2784	47.0	-59 26	7.04	6.8	Ao	6	..	43205b
24	3025	46.7	- 8 20	8.3	9.7	Ma	2	..	13409b	74	1708	47.0	-63 57	7.8	7.8	Ao	7	..	38834b
25	3145	46.7	-15 18	8.76	8.76	Ao	2	..	13130b	75	673	47.1	+67 22	8.8	9.1	Fo	2	0,1 R	37346i
26	3144	46.7	-15 52	8.5	9.5	Ko	2	..	13130b	76	814	47.1	+64 5	8.5	9.1	Go	4	2,4-	38285i
27	3139	46.7	-17 10	9.1	10.3	K5	1	..	46201b	77	2378	47.1	+40 42	7.38	8.38	Ko	5	0,5	38658i
28	6263	46.7	-47 58	9.4	9.6	A2	1	..	9453b	78	2049	47.1	+33 32	7.58	8.36	G5	6	0,6	37582i
29	2779	46.7	-58 41	7.9	8.6	B9	6	..	21154b	79	2390	47.1	+ 4 18	8.5	9.7	K5	2	..	19611b
30	1533	46.7	-67 36	8.5	9.5	Ko	3	..	40075b	80	2495	47.1	+ 1 33	6.28	6.34	A2	9	..	37731i
31	1223	46.7	-71 8	7.6	7.9	Fo	7	..	40298b	81	8481	47.1	-29 7	7.84	8.3	Go	6	..	41399b
32	634	46.8	+70 23	6.08	6.86	G5	8	..	37554i	82	6750	47.1	-36 47	9.4	9.7	Go	2	..	41327b
33	2269	46.8	+11 54	8.1	9.1	Ko	2	..	38228i	83	6788	47.1	-38 16	9.1	9.6	Go	2	..	41327b
34	2423	46.8	+ 9 36	7.97	8.39	F5	3	..	38228i	84	6179	47.1	-41 23	9.1	9.3	Go	2	..	41327b
35	2421	46.8	+ 8 27	10.7	11.9	K5	1	..	19611b	85	3879	47.1	-57 31	9.4	9.7	Fo	2	..	40090b
36	2378	46.8	+ 7 35	8.7	9.7	Ko	5	..	19611b	86	3878	47.1	-57 51	8.4	9.1	Ko	4	..	40090b
37	3154	46.8	- 5 15	9.15	9.71	Go	3	..	13417b	87	2786	47.1	-59 35	9.3	9.2	B5	3	..	40090b
38	8178	46.8	-26 22	8.4	9.0	Go	4	..	41399b	88	2321	47.1	-61 3	8.1	8.8	Ao	6	2,2	21154b
39	5981	46.8	-48 58	8.3	8.1	Ko	4	..	9453b	89	1226	47.1	-70 39	9.2	10.0	G5	1	..	39946b
40	5463	46.8	-50 54	8.0	9.0	Ko	4	..	9453b	90	412	47.2	+77 38	7.04	8.39	Ma	5	0,5	37465i
41	5093	46.8	-51 41	11.5	10.5	Ao	2	..	37600b	91	1333	47.2	+59 35	8.5	9.3	G5	2	..	37716i
42	2781	46.8	-58 48	8.9	9.4	G5	2	..	40090b	92	2050	47.2	+33 31	9.7	10.3	G	3	..	37582i
43	2782	46.8	-59 3	9.1	9.7	Fo	2	..	40090b	93	2526	47.2	+20 42	9.6	10.6	Ko	3	..	37504i
44	2317	46.8	-60 44	7.04	7.2	B5	..	4,4	28,205	94	2423	47.2	+ 8 46	8.3	8.4	A2	4	..	38228i
45	1141	46.8	-71 18	8.9	8.9	Ao	5	..	40298b	95	3171	47.2	-21 39	9.8	10.1	F8	2	..	40282b
46	690	46.8	-75 42	8.6	8.6	Ao	6	..	40298b	96	9578	47.2	-23 50	8.1	9.5	Ma	4	..	40282b
47	2308	46.9	+14 24	9.3	9.3	Ao	2	..	38228i	97	8777	47.2	-30 41	9.0	9.4	Ko	2	..	41399b
48	2424	46.9	+ 9 24	8.9	10.1	K5	2	..	19611b	98	6860	47.2	-44 30	8.3	8.2	A2	5	..	9376b
49	3006	46.9	- 3 35	8.7	9.9	K5	2	..	22977b	99	6451	47.2	-45 24	10.9	9.6	Ao	2	..	9376b
50	3247	46.9	- 6 39	8.7	9.2	F8	7	..	13417b	100	3880	47.2	-57 14	9.4	9.4	Ao	3	..	40090b

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10^h 47^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2789	47.2	-58 36	9.2	9.1	B5	2	..	4009ob	51	2270	47.6	+11 49	8.3	9.1	G5	2	..	38228i
2	552	47.3	+71 10	9.0	9.8	G5	3	..	37554i	52	2367	47.6	+ 2 38	7.9	9.3	Ma	3	..	37731i
3	928	47.3	+63 44	8.9	9.3	F5	3	..	37346i	53	2380	47.6	- 1 0	8.9	9.9	Ko	2	..	22977b
4	2144	47.3	+26 5	8.8	8.9	A3	5	..	38208i	54	3252	47.6	-18 6	8.5	8.9	F5	2	..	13130b
5	2424	47.3	+ 8 2	9.0	9.3	F2	3	..	19611b	55	3021	47.6	-22 40	9.3	9.2	Go	3	..	40282b
6	3139	47.3	-10 34	7.51	7.79	Fo	7	..	13409b	56	5105	47.6	-51 51	7.9	8.4	Ko	4	..	37662b
7	3173	47.3	-22 10	9.6	9.5	A2	3	..	40282b	57	4196	47.6	-54 7	8.0	8.2	Ao	6	..	37662b
8	3019	47.3	-22 44	10.0	10.2	Go	1	..	40282b	58	3887	47.6	-57 43	8.9	8.5	B8	5	..	4009ob
9	8183	47.3	-27 2	7.8	9.8	K5	3	..	41399b	59	2797	47.6	-58 51	var.	var.	Fo	2	R	4009ob
10	5467	47.3	-50 39	9.1	9.6	G5	1	..	9453b	60	1922	47.6	-61 37	8.1	8.8	F5	5	3,2	21154b
11	4104	47.3	-54 47	9.1	9.1	B9	4	..	37662b	61	1923	47.6	-61 50	7.9	9.5	Ko	3	0,3	31521b
12	3884	47.3	-57 12	9.4	10.2	G5	2	..	4009ob	62	1537	47.6	-67 50	8.3	8.8	F8	4	..	40075b
13	3883	47.3	-57 27	9.4	9.4	Ao	3	..	4009ob	63	1775	47.7	+49 46	7.77	7.83	A2	5	..	38672i
14	3881	47.3	-57 34	8.7	9.1	B5	4	..	4009ob	64	2172	47.7	+34 45	3.92	4.92	Ko	..	..	1845c
15	2790	47.3	-58 38	9.7	9.7	Ao	1	..	4009ob	65	2183	47.7	+16 20	8.9	9.4	F8	2	..	38666i
16	642	47.3	-76 35	9.6	10.1	F8	1	..	2153ob	66	2379	47.7	+ 7 45	8.6	8.7	A2	7	..	19611b
17	2025	47.4	+44 16	8.8	9.8	Ko	1	..	38308i	67	3250	47.7	- 6 27	8.3	9.3	Ko	6	..	13417b
18	1945	47.4	+28 23	7.44	7.86	F5	5	..	38208i	68	3141	47.7	-10 53	7.48	8.04	Go	6	..	13409b
19	2286	47.4	+16 51	8.1	8.7	Go	3	..	37504i	69	3150	47.7	-16 3	7.62	8.80	K5	4	..	13130b
20	2412	47.4	+ 5 32	8.14	9.14	Ko	3	..	37731i	70	3140	47.7	-16 29	7.9	8.5	Go	7	..	13130b
21	3130	47.4	- 8 3	8.7	8.8	A5	6	..	13417b	71	3023	47.7	-22 39	9.3	9.5	Go	3	..	40282b
22	8673	47.4	-29 47	9.5	10.0	G	1	..	41399b	72	6549	47.7	-43 2	9.1	9.1	Fo	2	..	9376b
23	6356	47.4	-40 35	8.5	9.0	Go	5	..	41327b	73	3972	47.7	-52 54	10.1	10.1	Ao	4	..	37600b
24	6270	47.4	-47 40	9.8	9.9	A	1	..	9453b	74	4108	47.7	-54 59	9.25	9.1	Ao	4	..	37662b
25	3969	47.4	-52 42	9.2	10.2	Ko	5	..	37600b	75	3927	47.7	-56 44	6.7	6.6	A5	5	..	43205b
26	3970	47.4	-52 49	9.6	9.9	Fo	5	..	37600b	76	3890	47.7	-57 21	9.6	10.0	F5	2	..	4009ob
27	4105	47.4	-54 13	10.3	10.3	B9	2	..	37600b	77	2796	47.7	-59 55	9.7	9.7	B8	2	..	21154b
28	3919	47.4	-55 12	9.6	11.0	Ma	1	..	37600b	78	2274	47.8	+22 49	10.0	10.8	G5	1	..	37504i
29	3924	47.4	-56 45	8.6	8.3	Ao	2	..	43205b	79	3010	47.8	- 3 23	8.1	9.2	K2	6	..	22977b
30	2791	47.4	-59 13	7.9	7.9	B1	6	..	21154b	80	3252	47.8	- 6 17	7.20	7.70	F8	9	..	13417b
31	740	47.4	-74 50	8.3	8.7	F5	7	..	40298b	81	8490	47.8	-28 59	8.3	9.8	F5	2	..	41399b
32	507	47.5	+73 10	9.0	9.5	F8	2	..	38663i	82	8677	47.8	-29 40	8.0	9.4	Ko	3	..	41399b
33	2130	47.5	+37 12	9.2	10.3	K2	2	..	37582i	83	7710	47.8	-33 8	7.9	8.8	K5	3	..	41375b
34	2285	47.5	+22 41	10.0	10.6	G	1	..	37504i	84	3974	47.8	-52 53	10.2	10.2	Ao	4	..	37600b
35	2284	47.5	+22 24	9.6	10.2	G	1	..	37504i	85	4199	47.8	-53 22	9.6	10.6	Ko	2	..	37600b
36	2391	47.5	+ 4 10	9.3	10.5	K5	1	..	19611b	86	4109	47.8	-54 36	7.0	7.9	K5	3	..	43205b
37	2710	47.5	+ 0 21	6.59	7.77	K5	7	3,8	37731i	87	3926	47.8	-56 2	8.9	8.8	Ao	8	..	4009ob
38	3044	47.5	-18 21	8.5	9.7	K5	1	..	13130b	88	1927	47.8	-61 10	9.2	9.1	B5	3	..	21154b
39	8675	47.5	-29 33	9.5	10.0	G5	1	..	41399b	89	1787	47.8	-62 22	7.7	7.7	B9	7	4,6	31521b
40	6791	47.5	-38 42	8.1	9.4	K2	3	..	41327b	90	1434	47.8	-66 17	7.7	7.7	B9	7	..	38834b
41	6271	47.5	-47 32	9.6	9.6	B9	2	..	9453b	91	2289	47.9	+17 30	8.1	8.6	F8	4	..	37504i
42	6272	47.5	-48 0	9.1	9.9	Ao	2	..	9453b	92	2415	47.9	+ 5 30	7.75	8.53	G5	4	..	37731i
43	5991	47.5	-48 38	6.72	7.0	F5	8	..	9453b	93	3241	47.9	- 2 31	8.5	8.6	A2	5	..	22977b
44	3885	47.5	-57 33	9.7	9.7	Ao	3	..	4009ob	94	8293	47.9	-25 20	9.8	10.4	K2	2	..	40282b
45	2795	47.5	-58 37	7.9	8.2	Fo	8	..	21154b	95	8295	47.9	-26 3	8.4	9.8	K5	2	..	41399b
46	563	47.5	-79 38	9.0	9.8	G5	2	..	2153ob	96	6742	47.9	-39 20	8.5	9.4	K5	1	..	41327b
47	1418	47.6	+55 7	5.36	6.36	Ko	10	..	37717i	97	5106	47.9	-51 11	8.4	9.0	Ko	3	..	9453b
48	2286	47.6	+22 41	9.6	10.4	G5	1	..	37504i	98	5107	47.9	-51 54	11.5	9.9	Ao	3	..	37600b
49	2287	47.6	+17 13	8.6	9.0	F5	3	..	37504i	99	3975	47.9	-52 29	9.7	10.1	F5	3	..	37600b
50	2257	47.6	+15 17	8.7	9.1	F5	2	..	38666i	100	4200	47.9	-53 44	8.6	9.1	F2	5	..	37662b

THE HENRY DRAPER CATALOGUE.

94300

10^h 47^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4112	47.9	-54 12	9.2	10.3	K2	3	..	37600b	51	3163	48.3	-10 13	8.41	8.91	F8	2	..	13409b
2	3927	47.9	-56 1	9.0	9.1	A2	5	..	40090b	52	3177	48.3	-21 30	9.2	10.1	K2	2	..	40282b
3	3893	47.9	-57 29	8.9	9.1	B9	4	..	40090b	53	8607	48.3	-31 28	8.36	9.4	K2	3	..	41375b
4	3895	47.9	-57 53	7.3	7.1	A2	4	..	43205b	54	6762	48.3	-36 12	8.8	9.6	G5	3	..	41327b
5	..	47.9	-61 46	..	..	Oa	..	..	76,29	55	6191	48.3	-41 11	8.1	9.1	K5	2	..	41327b
6	1672	48.0	+46 41	8.1	8.9	G5	2	..	38308i	56	5476	48.3	-50 9	10.9	10.4	Ao	2	..	37600b
7	1946	48.0	+28 42	9.3	10.1	G5	1	..	38711i	57	5475	48.3	-50 16	9.54	10.1	Ko	2	..	37600b
8	3151	48.0	-15 32	9.2	10.0	G5	3	..	46201b	58	3986	48.3	-52 17	10.3	10.4	A2	3	..	37600b
9	3153	48.0	-15 51	8.7	9.5	G5	3	..	13130b	59	3987	48.3	-52 31	10.8	10.8	Ao	1	..	37600b
10	3142	48.0	-16 45	7.16	7.72	Go	8	..	13130b	60	3905	48.3	-57 40	9.0	9.1	A3	3	..	40090b
11	3048	48.0	-19 2	8.00	9.07	K2	4	..	13130b	61	2805	48.3	-58 32	8.9	9.7	Ko	2	0,1	21154b
12	9381	48.0	-24 11	8.8	8.9	A2	7	..	40282b	62	2312a	48.4	+14 15	var.	var.	Md	..	R	56,201
13	3932	48.0	-55 18	10.6	10.6	Ao	2	..	37600b	63	2459	48.4	-1 43	6.23	7.23	Ko	7	5,10	37731i
14	3928	48.0	-55 38	8.7	9.4	F8	4	..	37662b	64	3025	48.4	-23 3	9.8	9.5	F8	2	..	40282b
15	3935	48.0	-56 24	8.9	10.3	Mb	..	..	M	65	7744	48.4	-27 51	8.2	10.2	K5	2	..	41399b
16	1422	48.1	+55 19	8.1	9.1	Ko	3	..	37717i	66	7042	48.4	-34 58	6.83	6.7	B8	9	..	41375b
17	1897	48.1	+48 13	7.54	7.82	Fo	7	..	38308i	67	3947	48.4	-56 43	5.57	5.7	B8p	..	4,8 R	56,128
18	2320	48.1	+13 40	7.7	8.8	K2	4	..	38228i	68	3913	48.4	-57 18	9.9	10.0	A2	2	..	40090b
19	2319	48.1	+13 16	8.5	8.6	A3	3	..	38228i	69	3909	48.4	-57 43	8.0	7.1	B2	8	..	21154b
20	3143	48.1	-16 24	8.5	9.5	Ko	3	..	13130b	70	2809	48.4	-58 13	8.2	8.0	B3	5	..	21154b
21	3176	48.1	-22 5	10.0	10.4	Ko	1	..	40282b	71	2256	48.5	+21 3	8.8	9.3	F8	4	..	37504i
22	9384	48.1	-24 13	8.4	9.8	K5	5	..	40282b	72	2382	48.5	-0 49	8.7	9.2	F8	2	..	22977b
23	8195	48.1	-26 52	8.6	9.3	Fo	4	..	41399b	73	3133	48.5	-7 32	9.3	9.8	F8	1	..	13417b
24	6745	48.1	-39 58	7.9	9.1	K5	3	..	41327b	74	3242	48.5	-13 50	10.0	11.2	K5	2	..	46201b
25	6553	48.1	-43 3	8.9	9.4	Ko	2	..	9376b	75	8686	48.5	-29 34	7.7	8.8	F8	6	..	41399b
26	6469	48.1	-45 41	7.8	8.2	A2	6	..	9376b	76	6749	48.5	-39 53	7.93	8.1	Ao	4	0,7	43044b
27	5111	48.1	-51 16	7.6	7.8	B9	8	..	9453b	77	6559	48.5	-43 1	9.0	9.4	G5	3	..	9376b
28	5110	48.1	-51 40	8.6	7.9	A3	5	..	37662b	78	5119	48.5	-51 56	10.2	9.7	B9	4	..	37600b
29	4205	48.1	-53 49	9.1	9.4	Ao	3	..	37662b	79	2813	48.5	-58 33	8.4	9.1	B5	4	3,2	21154b
30	3936	48.1	-56 21	8.7	8.8	B9	7	..	40090b	80	2812	48.5	-58 41	8.1	8.5	B8	5	..	21154b
31	3938	48.1	-56 51	8.2	9.4	K2	4	..	40090b	81	2807	48.5	-59 25	9.1	9.1	B8	2	..	21154b
32	2803	48.1	-58 10	8.7	8.5	Fo	5	..	40090b	82	2345	48.5	-60 29	9.1	9.1	B5	3	..	21154b
33	1929	48.1	-61 39	8.6	9.2	B9	3	..	21154b	83	2176	48.6	+34 40	8.32	8.88	Go	4	E	37572i
34	2058	48.2	+43 43	4.84	4.84	Ao	..	0, R	56,87	84	2291	48.6	+17 39	9.0	9.6	G	2	..	37504i
35	2196	48.2	+30 54	9.2	9.8	Go	2	..	37572i	85	3013	48.6	-3 46	9.1	9.2	A5	3	..	22977b
36	2145	48.2	+26 44	7.28	8.63	Ma	6	..	38208i	86	3213	48.6	-14 55	6.56	7.56	Ko	8	..	13130b
37	2253	48.2	+21 10	10.2	10.8	Go	2	..	37504i	87	3155	48.6	-15 17	8.26	9.26	Ko	3	..	13130b
38	3029	48.2	-8 49	8.3	9.4	K2	1	E	13409b	88	3125	48.6	-19 36	5.28	6.1	F5	8	R	5897b
39	3239	48.2	-13 46	9.6	10.1	F8	2	..	46201b	89	7720	48.6	-32 28	8.1	9.4	K2	1	..	41375b
40	3122	48.2	-20 5	7.08	7.9	G5	9	..	40282b	90	6886	48.6	-44 17	8.9	9.0	A2	3	..	9376b
41	8683	48.2	-29 49	8.6	9.2	A5	3	..	41399b	91	6533	48.6	-46 51	7.9	9.1	Ko	4	..	9453b
42	6746	48.2	-40 7	9.1	9.3	A5	4	..	41327b	92	4118	48.6	-54 15	9.4	10.0	Go	3	..	37600b
43	6555	48.2	-42 55	10.5	9.3	Ao	3	..	9376b	93	3953	48.6	-56 36	8.4	8.2	B9	7	..	40090b
44	4115	48.2	-54 27	9.9	10.0	A5	4	..	37600b	94	2816	48.6	-58 39	7.9	8.5	B9	7	..	21154b
45	2802	48.2	-59 25	8.3	8.3	B8	4	..	21154b	95	2817	48.6	-58 53	8.9	8.9	A5	3	5,3-	38749b
46	2338	48.2	-60 54	7.2	7.6	B9	2	..	43205b	96	930	48.7	+63 29	8.3	9.4	K2	2	E	37716i
47	817	48.3	+64 38	8.80	9.58	G5	2	..	37346i	97	1404	48.7	+54 7	8.7	9.7	Ko	2	..	37717i
48	1289	48.3	+58 25	9.4	10.0	Go	2	..	37716i	98	1443	48.7	+52 55	9.0	9.0	A	2	..	37717i
49	2197	48.3	+30 50	8.2	8.8	Go	4	..	37572i	99	1898	48.7	+48 1	8.7	9.5	G5	2	0,1	38672i
50	2428	48.3	+2 52	8.9	9.9	Ko	2	E	19611b	100	2394	48.7	+4 15	8.1	8.5	F5	4	..	37731i

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10^h 48^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2429	48.7	+ 3 12	8.3	8.6	Fo	4	..	37731i	51	2824	49.0	-59 0	9.4	9.5	A2	2	..	4009ob
2	2460	48.7	- 1 36	5.72	6.72	Ko	8	R	37731i	52	1936	49.0	-61 29	8.3	9.9	Ma	2	..	21154b
3	3144	48.7	-16 17	8.9	9.3	F5	3	..	1313ob	53	1052	49.0	-72 37	8.9	8.9	Ao	7	..	40298b
4	6770	48.7	-37 5	8.8	9.3	F8	2	..	41327b	54	695	49.0	-75 21	6.80	6.8	B9	9	..	40298b
5	5482	48.7	-50 56	10.2	9.9	F2	3	..	3760ob	55	490	49.0	-80 24	8.31	8.2	Ao	5	..	2153ob
6	..	48.7	-52 54	var.	var.	Nb	1	R	3760ob	56	2133	49.1	+37 18	7.29	7.57	Fo	7	..	37582i
7	3914	48.7	-57 29	9.1	9.1	Ao	3	..	4009ob	57	2085	49.1	+30 11	6.57	7.07	F8	8	..	37572i
8	3915	48.7	-57 39	9.6	11.0	Mb	..	..	M	58	2102	49.1	+29 27	8.9	9.4	F8	3	..	38711i
9	3916	48.7	-58 2	8.5	8.2	B8	7	..	4009ob	59	2276	49.1	+23 29	9.0	9.6	Go	2	..	37504i
10	1546	48.7	-68 1	8.3	9.1	G5	2	..	40075b	60	2322	49.1	+12 55	7.47	8.47	Ko	4	..	38228i
11	1342	48.7	-68 24	9.3	9.7	F5	1	..	40075b	61	8614	49.1	-31 48	7.71	8.5	F2	6	..	41375b
12	1048	48.7	-72 14	var.	var.	Mc	..	R	M	62	5637	49.1	-50 6	8.94	9.0	F8	3	..	9453b
13	776	48.7	-74 4	9.6	9.6	A	1	..	40298b	63	5126	49.1	-51 16	8.4	8.4	A2	6	..	9453b
14	643	48.7	-76 36	8.7	8.7	B9	5	..	2153ob	64	3929	49.1	-57 19	8.9	9.1	F5	3	R	4009ob
15	637	48.8	+70 18	8.7	9.5	G5	3	..	37554i	65	2826	49.1	-58 58	8.9	8.9	B8	3	..	4009ob
16	6564	48.8	-42 44	10.2	10.1	Go	3	..	9376b	66	1794	49.1	-62 33	7.6	7.7	A3	6	0.7	38834b
17	6565	48.8	-42 44	9.8	9.6	..	..	..	..	67	689	49.2	+66 16	8.1	8.6	F8	3	..	37346i
18	4209	48.8	-53 53	8.1	9.1	Ko	4	..	37662b	68	2133	49.2	+36 42	9.6	10.6	K	1	..	37582i
19	4120	48.8	-54 43	9.9	10.0	A2	1	..	37662b	69	2262	49.2	+21 18	8.4	8.8	F5	4	..	37504i
20	3941	48.8	-55 39	9.2	10.2	Ko	3	..	3760ob	70	2429	49.2	+ 8 10	10.0	10.5	F8	1	..	19611b
21	3920	48.8	-57 15	9.7	9.7	Ao	2	..	4009ob	71	3161	49.2	- 6 12	8.9	10.0	K2	2	..	13417b
22	1724	48.8	-63 53	7.8	7.8	B9	6	..	38834b	72	3029	49.2	-23 11	9.3	9.6	K5	3	..	40282b
23	1151	48.9	+61 56	8.8	9.1	Fo	3	..	37716i	73	8207	49.2	-26 13	7.30	7.9	B9	8	..	41399b
24	2028	48.9	+44 8	8.5	9.5	Ko	2	..	38308i	74	8209	49.2	-26 40	9.2	9.8	Ko	2	..	41399b
25	2158	48.9	+41 52	7.66	8.66	Ko	4	..	38308i	75	2828	49.2	-58 51	9.2	9.1	B5	3	3.3	21154b
26	2199	48.9	+31 6	7.42	7.84	F5	6	..	37572i	76	2812	49.2	-59 58	9.9	10.0	A2	2	..	21154b
27	2970	48.9	-11 54	7.30	7.44	A5	7	..	13409b	77	1344	49.2	-68 31	9.3	9.4	A2	2	..	40075b
28	3028	48.9	-22 49	9.2	9.5	Ko	3	..	40282b	78	1636	49.3	+51 27	8.3	9.1	G5	2	..	37717i
29	9592	48.9	-23 48	7.8	8.9	F5	6	..	40282b	79	2384	49.3	+40 21	8.20	8.26	A2	3	E	38308i
30	9391	48.9	-24 17	8.0	9.3	K5	5	..	40282b	80	2147	49.3	+26 1	6.18	6.46	Fo	..	0.9	56,87
31	3993	48.9	-52 51	10.5	10.5	Ao	2	..	3760ob	81	3293	49.3	-13 14	5.84	6.40	Go	10	..	13409b
32	2351	48.9	-60 47	8.9	9.2	Fo	2	..	21154b	82	3031	49.3	-22 38	7.9	8.6	Go	8	..	40282b
33	1418	48.9	-69 22	9.0	9.4	F5	2	..	40075b	83	7330	49.3	-33 59	7.7	8.8	F2	7	..	41375b
34	777	48.9	-73 55	8.9	9.0	A2	3	..	40298b	84	7059	49.3	-34 42	9.4	9.6	G	1	..	41375b
35	1522	49.0	+52 40	7.9	9.1	K5	1	R	38672i	85	6572	49.3	-42 35	7.4	8.5	Ko	5	..	9376b
36	2177	49.0	+34 27	9.7	10.5	G5	2	..	37572i	86	5130	49.3	-51 49	7.8	7.9	Ko	5	..	37662b
37	2085	49.0	+32 16	8.3	9.1	G5	3	..	37572i	87	4126	49.3	-54 32	9.6	9.7	A2	1	..	37662b
38	2260	49.0	+21 15	9.7	10.3	Go	2	..	37504i	88	3949	49.3	-55 35	8.6	9.4	Fo	3	..	37662b
39	3015	49.0	- 3 30	8.7	9.1	F5	6	..	22977b	89	3936	49.3	-57 20	9.1	9.1	B9	3	..	4009ob
40	3288	49.0	-20 33	8.8	9.2	F5	2	..	40282b	90	3933	49.3	-57 21	9.1	9.1	A	2	..	4009ob
41	9593	49.0	-23 34	9.3	9.8	Ko	2	..	40282b	91	2830	49.3	-58 22	6.64	5.8	B3	..	2.9-	28,205
42	8694	49.0	-29 23	8.4	8.5	Ao	5	..	41399b	92	2831	49.3	-59 5	9.9	10.0	A2	1	..	4009ob
43	6806	49.0	-38 35	7.72	8.5	Ko	4	..	41327b	93	2359	49.3	-60 17	7.44	7.3	B1	..	1.6-	28,205
44	6619	49.0	-43 53	7.8	8.4	Go	5	..	9376b	94	1447	49.3	-66 59	8.3	9.5	K5	1	..	40075b
45	5636	49.0	-50 4	8.19	8.5	Ko	3	..	9453b	95	1552	49.3	-67 41	7.5	8.9	Ma	6	..	40075b
46	3994	49.0	-52 22	9.5	10.5	Ko	2	..	3760ob	96	344	49.4	+80 19	8.8	9.4	Go	2	..	37465i
47	4122	49.0	-54 53	9.8	10.8	Ko	2	..	3760ob	97	2178	49.4	+34 34	5.86	6.86	Ko	8	..	37572i
48	3927	49.0	-57 18	7.2	8.3	Ko	5	..	4009ob	98	2285	49.4	+24 17	8.8	8.9	A5	3	..	38208i
49	3924	49.0	-57 27	9.4	9.5	A2	2	..	4009ob	99	2260	49.4	+15 31	9.3	9.4	A2	4	..	4905m
50	3926	49.0	-57 45	9.7	9.7	Ao	1	..	4009ob	100	2384	49.4	- 0 59	8.3	8.6	F2	5	3.3	22977b

THE HENRY DRAPER CATALOGUE.

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10^h 49^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3145	49.4	-16 14	10.0	11.0	Ko	1	..	46201b	51	2087	49.8	+31 52	10.0	10.6	G	2	..	37572i
2	3053	49.4	-18 39	9.3	10.1	G5	2	..	41220b	52	3139	49.8	-7 50	8.1	8.1	Ao	9	..	13417b
3	7730	49.4	-32 16	8.3	9.4	Ko	2	..	41375b	53	8217	49.8	-26 16	8.6	8.6	F2	4	..	41399b
4	6821	49.4	-35 56	6.84	6.8	F5	8	..	41327b	54	8704	49.8	-29 56	9.6	10.0	Ko	1	..	41399b
5	6901	49.4	-37 39	8.5	9.9	G5	2	..	41327b	55	8809	49.8	-30 52	9.3	9.1	F2	4	..	41375b
6	5487	49.4	-50 58	7.3	8.4	Ko	6	..	9453b	56	6024	49.8	-48 38	7.9	8.8	Ko	2	..	9453b
7	3999	49.4	-52 40	var.	var.	Md	..	R	56,201	57	5140	49.8	-51 56	9.2	8.8	F8	3	..	37662b
8	3952	49.4	-55 53	6.8	7.9	K2	4	..	43205b	58	2846	49.8	-58 51	8.2	8.5	Ao	4	1,7	31521b
9	3939	49.4	-57 54	9.1	9.1	B8	4	..	40090b	59	1951	49.8	-61 8	7.2	7.7	B3	6	0,8	31521b
10	2834	49.4	-58 19	3.88	4.88	Ko	..	5, R	28,205	60	1155	49.8	-71 36	10.0	10.0	Ao	2	..	40298b
11	2813	49.4	-59 55	9.1	9.1	B9	3	..	21154b	61	3167	49.9	-9 33	8.1	8.1	Ao	4	..	13409b
12	1057	49.4	-72 39	8.6	9.2	G	2	..	40298b	62	3221	49.9	-14 55	8.8	9.6	G5	3	..	13130b
13	346	49.5	+79 25	9.7	10.2	F8	2	..	37465i	63	9405	49.9	-24 16	8.3	9.5	Ko	5	..	40282b
14	2261	49.5	+15 44	8.1	9.1	Ko	2	..	38666i	64	8319	49.9	-25 9	9.75	10.7	K5	2	..	40282b
15	2368	49.5	+6 23	7.9	8.9	Ko	6	..	37731i	65	6818	49.9	-38 13	6.97	7.7	B9	8	..	41327b
16	2385	49.5	-0 23	9.18	10.18	K	1	..	22977b	66	6766	49.9	-39 34	9.5	9.3	A5	4	..	41327b
17	3247	49.5	-13 28	8.8	9.8	Ko	2	..	46201b	67	6911	49.9	-44 26	9.8	9.1	A2	2	..	9376b
18	8807	49.5	-30 37	8.2	9.2	Go	5	..	41375b	68	5491	49.9	-50 38	10.2	9.7	Ao	1	..	9453b
19	6487	49.5	-45 33	10.0	9.9	Ao	2	..	9376b	69	5141	49.9	-51 29	9.4	10.2	Ko	3	..	37600b
20	5488	49.5	-50 54	8.5	9.6	K	1	..	9453b	70	2848	49.9	-59 3	8.4	8.9	Ao	3	1,7	31521b
21	4128	49.5	-54 44	8.9	8.8	A5	4	..	37662b	71	1803	49.9	-62 24	9.7	9.7	Ao	1	..	38798b
22	1346	49.5	-68 35	7.7	8.8	K2	4	..	40075b	72	1060	49.9	-72 12	8.5	9.5	Ko	3	..	40298b
23	592	49.6	+69 6	8.92	9.42	F8	2	..	37554i	73	429	50.0	+74 53	8.04	9.39	Mb	4	..	37742i
24	2179	49.6	+34 26	10.9	11.9	K	1	..	37572i	74	638	50.0	+70 34	8.1	8.5	F5	4	..	37554i
25	3149	49.6	-11 0	8.3	9.3	Ko	2	..	13409b	75	3159	50.0	-15 18	9.8	11.0	K5	1	..	46201b
26	3131	49.6	-19 42	8.1	8.6	A3	7	..	40282b	76	3146	50.0	-16 56	8.9	9.4	F8	2	..	13130b
27	6781	49.6	-36 44	8.2	8.8	G5	3	..	41327b	77	3056	50.0	-18 47	8.9	9.9	Ko	2	..	41220b
28	6761	49.6	-39 41	8.9	9.6	Ko	2	..	41327b	78	9407	50.0	-24 43	9.2	9.5	F8	4	..	40282b
29	6021	49.6	-48 48	8.8	9.3	Ao	4	..	9453b	79	6550	50.0	-46 58	8.5	9.4	Ko	2	..	9453b
30	4215	49.6	-53 23	8.6	9.1	Go	4	R	37662b	80	5493	50.0	-50 55	9.6	9.6	A2	2	..	9453b
31	4215	49.6	-53 23	8.6	9.1	A2	4	R	37662b	81	4137	50.0	-54 19	9.6	10.2	Go	2	..	37600b
32	3943	49.6	-57 42	9.0	10.0	Ko	1	..	40090b	82	3959	50.0	-57 22	9.7	9.7	Ao	2	..	40090b
33	2844	49.6	-58 15	8.6	8.8	B8	5	..	40090b	83	3960	50.0	-57 33	9.7	9.7	Ao	2	..	40090b
34	2365	49.6	-61 8	9.1	9.2	G5	2	..	21154b	84	2369	50.0	-60 9	8.94	9.9	Ko	2	..	21154b
35	1523	49.6	-64 16	8.6	9.2	Go	1	5,1	38834b	85	1157	50.0	-71 46	9.6	9.7	A2	2	..	40298b
36	778	49.6	-73 12	8.9	8.9	Ao	3	..	40298b	86	1831	50.1	+47 26	8.8	9.6	G5	1	..	38308i
37	2160	49.7	+41 59	8.7	9.3	Go	2	..	38308i	87	2277	50.1	+23 42	7.50	8.28	G5	5	..	37504i
38	2386	49.7	-0 23	8.93	10.00	K2	2	..	22977b	88	2392	50.1	+19 5	8.5	9.3	G5	3	..	37504i
39	3247	49.7	-2 19	8.5	8.8	Fo	3	..	22977b	89	8709	50.1	-29 48	7.72	8.5	A2	7	..	41375b
40	3138	49.7	-8 10	8.7	9.7	Ko	1	..	13417b	90	6914	50.1	-44 9	8.2	8.5	F2	4	..	9376b
41	3292	49.7	-20 52	9.1	10.1	K2	2	..	40282b	91	6552	50.1	-46 14	10.0	9.6	G	1	..	9453b
42	7065	49.7	-34 25	9.1	9.0	Go	3	..	41375b	92	6312	50.1	-48 0	9.0	9.4	Ko	2	..	9453b
43	6625	49.7	-43 9	9.1	9.6	G5	1	..	9376b	93	5647	50.1	-49 16	8.8	9.4	Ko	3	..	38416b
44	4218	49.7	-54 2	10.2	10.2	B9	3	..	37600b	94	4220	50.1	-53 28	8.3	10.2	K2	2	..	37662b
45	4131	49.7	-54 57	9.0	9.1	F2	2	..	37662b	95	4138	50.1	-54 11	9.9	10.0	A3	3	..	37600b
46	2845	49.7	-58 59	..	10.6	Oa	1	0,1	21154b	96	4139	50.1	-54 26	8.8	8.3	Ao	5	..	37662b
47	2818	49.7	-59 19	9.9	9.9	Ao	1	..	40090b	97	3981	50.1	-56 19	9.6	9.7	A2	4	..	40090b
48	2366	49.7	-60 47	9.7	9.7	Ao	2	..	21154b	98	2822	50.1	-59 49	8.04	8.8	F5	6	0,4	21154b
49	808	49.8	+65 4	7.30	8.30	Ko	6	0,4	37716i	99	2370	50.1	-60 34	8.9	10.0	Ma	..	..	M
50	2180	49.8	+34 35	9.7	10.3	Go	2	..	37572i	100	2181	50.2	+34 2	5.23	6.23	Ko	..	5,9	1845c

94400

10^h 48^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2429	48.7	+ 3 12	8.3	8.6	Fo	4	..	3773i	51	2824	49.0	-59 0	9.4	9.5	A2	2	..	4009ob
2	2460	48.7	- 1 36	5.72	6.72	Ko	8	R	3773i	52	1936	49.0	-61 29	8.3	9.9	Ma	2	..	21154b
3	3144	48.7	-16 17	8.9	9.3	F5	3	..	1313ob	53	1052	49.0	-72 37	8.9	8.9	Ao	7	..	40298b
4	6770	48.7	-37 5	8.8	9.3	F8	2	..	41327b	54	695	49.0	-75 21	6.80	6.8	B9	9	..	40298b
5	5482	48.7	-50 56	10.2	9.9	F2	3	..	3760ob	55	490	49.0	-80 24	8.31	8.2	Ao	5	..	2153ob
6	..	48.7	-52 54	var.	var.	Nb	1	R	3760ob	56	2133	49.1	+37 18	7.29	7.57	Fo	7	..	37582i
7	3914	48.7	-57 29	9.1	9.1	Ao	3	..	4009ob	57	2085	49.1	+30 11	6.57	7.07	F8	8	..	37572i
8	3915	48.7	-57 39	9.6	11.0	Mb	..	..	M	58	2102	49.1	+29 27	8.9	9.4	F8	3	..	38711i
9	3916	48.7	-58 2	8.5	8.2	B8	7	..	4009ob	59	2276	49.1	+23 29	9.0	9.6	Go	2	..	37504i
10	1546	48.7	-68 1	8.3	9.1	G5	2	..	40075b	60	2322	49.1	+12 55	7.47	8.47	Ko	4	..	38228i
11	1342	48.7	-68 24	9.3	9.7	F5	1	..	40075b	61	8614	49.1	-31 48	7.71	8.5	F2	6	..	41375b
12	1048	48.7	-72 14	var.	var.	Mc	..	R	M	62	5637	49.1	-50 6	8.94	9.0	F8	3	..	9453b
13	776	48.7	-74 4	9.6	9.6	A	1	..	40298b	63	5126	49.1	-51 16	8.4	8.4	A2	6	..	9453b
14	643	48.7	-76 36	8.7	8.7	B9	5	..	2153ob	64	3929	49.1	-57 19	8.9	9.1	F5	3	R	4009ob
15	637	48.8	+70 18	8.7	9.5	G5	3	..	37554i	65	2826	49.1	-58 58	8.9	8.9	B8	3	..	4009ob
16	6564	48.8	-42 44	10.2	10.1	Go	3	..	9376b	66	1794	49.1	-62 33	7.6	7.7	A3	6	0,7	38834b
17	6565	48.8	-42 44	9.8	9.6	..	..	..	..	67	689	49.2	+66 16	8.1	8.6	F8	3	..	37346i
18	4209	48.8	-53 53	8.1	9.1	Ko	4	..	37662b	68	2133	49.2	+36 42	9.6	10.6	K	1	..	37582i
19	4120	48.8	-54 43	9.9	10.0	A2	1	..	37662b	69	2262	49.2	+21 18	8.4	8.8	F5	4	..	37504i
20	3941	48.8	-55 39	9.2	10.2	Ko	3	..	3760ob	70	2429	49.2	+ 8 10	10.0	10.5	F8	1	..	19611b
21	3920	48.8	-57 15	9.7	9.7	Ao	2	..	4009ob	71	3161	49.2	- 6 12	8.9	10.0	K2	2	..	13417b
22	1724	48.8	-63 53	7.8	7.8	B9	6	..	38834b	72	3029	49.2	-23 11	9.3	9.6	K5	3	..	40282b
23	1151	48.9	+61 56	8.8	9.1	Fo	3	..	37716i	73	8207	49.2	-26 13	7.30	7.9	B9	8	..	41399b
24	2028	48.9	+44 8	8.5	9.5	Ko	2	..	38308i	74	8209	49.2	-26 40	9.2	9.8	Ko	2	..	41399b
25	2158	48.9	+41 52	7.66	8.66	Ko	4	..	38308i	75	2828	49.2	-58 51	9.2	9.1	B5	3	3,3	21154b
26	2199	48.9	+31 6	7.42	7.84	F5	6	..	37572i	76	2812	49.2	-59 58	9.9	10.0	A2	2	..	21154b
27	2970	48.9	-11 54	7.30	7.44	A5	7	..	13409b	77	1344	49.2	-68 31	9.3	9.4	A2	2	..	40075b
28	3028	48.9	-22 49	9.2	9.5	Ko	3	..	40282b	78	1636	49.3	+51 27	8.3	9.1	G5	2	..	37717i
29	9592	48.9	-23 48	7.8	8.9	F5	6	..	40282b	79	2384	49.3	+40 21	8.20	8.26	A2	3	E	38308i
30	9391	48.9	-24 17	8.0	9.3	K5	5	..	40282b	80	2147	49.3	+26 1	6.18	6.46	Fo	..	0,9	56,87
31	3993	48.9	-52 51	10.5	10.5	Ao	2	..	3760ob	81	3293	49.3	-13 14	5.84	6.40	Go	10	..	13409b
32	2351	48.9	-60 47	8.9	9.2	Fo	2	..	21154b	82	3031	49.3	-22 38	7.9	8.6	Go	8	..	40282b
33	1418	48.9	-69 22	9.0	9.4	F5	2	..	40075b	83	7330	49.3	-33 59	7.7	8.8	F2	7	..	41375b
34	777	48.9	-73 55	8.9	9.0	A2	3	..	40298b	84	7059	49.3	-34 42	9.4	9.6	G	1	..	41375b
35	1522	49.0	+52 40	7.9	9.1	K5	1	R	38672i	85	6572	49.3	-42 35	7.4	8.5	Ko	5	..	9376b
36	2177	49.0	+34 27	9.7	10.5	G5	2	..	37572i	86	5130	49.3	-51 49	7.8	7.9	Ko	5	..	37662b
37	2085	49.0	+32 16	8.3	9.1	G5	3	..	37572i	87	4126	49.3	-54 32	9.6	9.7	A2	1	..	37662b
38	2260	49.0	+21 15	9.7	10.3	Go	2	..	37504i	88	3949	49.3	-55 35	8.6	9.4	Fo	3	..	37662b
39	3015	49.0	- 3 30	8.7	9.1	F5	6	..	22977b	89	3936	49.3	-57 20	9.1	9.1	B9	3	..	4009ob
40	3288	49.0	-20 33	8.8	9.2	F5	2	..	40282b	90	3933	49.3	-57 21	9.1	9.1	A	2	..	4009ob
41	9593	49.0	-23 34	9.3	9.8	Ko	2	..	40282b	91	2830	49.3	-58 22	6.64	5.8	B3	..	2,9	28,205
42	8694	49.0	-29 23	8.4	8.5	Ao	5	..	41399b	92	2831	49.3	-59 5	9.9	10.0	A2	1	..	4009ob
43	6806	49.0	-38 35	7.72	8.5	Ko	4	..	41327b	93	2359	49.3	-60 17	7.44	7.3	B1	..	1,6	28,205
44	6619	49.0	-43 53	7.8	8.4	Go	5	..	9376b	94	1447	49.3	-66 59	8.3	9.5	K5	1	..	40075b
45	5636	49.0	-50 4	8.19	8.5	Ko	3	..	9453b	95	1552	49.3	-67 41	7.5	8.9	Ma	6	..	40075b
46	3994	49.0	-52 22	9.5	10.5	Ko	2	..	3760ob	96	344	49.4	+80 19	8.8	9.4	Go	2	..	37465i
47	4122	49.0	-54 53	9.8	10.8	Ko	2	..	3760ob	97	2178	49.4	+34 34	5.86	6.86	Ko	8	..	37572i
48	3927	49.0	-57 18	7.2	8.3	Ko	5	..	4009ob	98	2285	49.4	+24 17	8.8	8.9	A5	3	..	38208i
49	3924	49.0	-57 27	9.4	9.5	A2	2	..	4009ob	99	2260	49.4	+15 31	9.3	9.4	A2	4	..	4905m
50	3926	49.0	-57 45	9.7	9.7	Ao	1	..	4009ob	100	2384	49.4	- 0 59	8.3	8.6	F2	5	3,3	22977b

THE HENRY DRAPER CATALOGUE.

94500

10^h 49^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3145	49.4	-16 14	10.0	11.0	Ko	1	..	46201b	51	2087	49.8	+31 52	10.0	10.6	G	2	..	37572i
2	3053	49.4	-18 39	9.3	10.1	G5	2	..	41220b	52	3139	49.8	-7 50	8.1	8.1	Ao	9	..	13417b
3	7730	49.4	-32 16	8.3	9.4	Ko	2	..	41375b	53	8217	49.8	-26 16	8.6	8.6	F2	4	..	41399b
4	6821	49.4	-35 56	6.84	6.8	F5	8	..	41327b	54	8704	49.8	-29 56	9.6	10.0	Ko	1	..	41399b
5	6901	49.4	-37 39	8.5	9.9	G5	2	..	41327b	55	8809	49.8	-30 52	9.3	9.1	F2	4	..	41375b
6	5487	49.4	-50 58	7.3	8.4	Ko	6	..	9453b	56	6024	49.8	-48 38	7.9	8.8	Ko	2	..	9453b
7	3999	49.4	-52 40	var.	var.	Md	..	R	56,201	57	5140	49.8	-51 56	9.2	8.8	F8	3	..	37662b
8	3952	49.4	-55 53	6.8	7.9	K2	4	..	43205b	58	2846	49.8	-58 51	8.2	8.5	Ao	4	1,7	31521b
9	3939	49.4	-57 54	9.1	9.1	B8	4	..	40090b	59	1951	49.8	-61 8	7.2	7.7	B3	6	0,8	31521b
10	2834	49.4	-58 19	3.88	4.88	Ko	..	5, R	28,205	60	1155	49.8	-71 36	10.0	10.0	Ao	2	..	40298b
11	2813	49.4	-59 55	9.1	9.1	B9	3	..	21154b	61	3167	49.9	-9 33	8.1	8.1	Ao	4	..	13409b
12	1057	49.4	-72 39	8.6	9.2	G	2	..	40298b	62	3221	49.9	-14 55	8.8	9.6	G5	3	..	13130b
13	346	49.5	+79 25	9.7	10.2	F8	2	..	37465i	63	9405	49.9	-24 16	8.3	9.5	Ko	5	..	40282b
14	2261	49.5	+15 44	8.1	9.1	Ko	2	..	38666i	64	8319	49.9	-25 9	9.75	10.7	K5	2	..	40282b
15	2368	49.5	+6 23	7.9	8.9	Ko	6	..	37731i	65	6818	49.9	-38 13	6.97	7.7	B9	8	..	41327b
16	2385	49.5	-0 23	9.18	10.18	K	1	..	22977b	66	6766	49.9	-39 34	9.5	9.3	A5	4	..	41327b
17	3247	49.5	-13 28	8.8	9.8	Ko	2	..	46201b	67	6911	49.9	-44 26	9.8	9.1	A2	2	..	9376b
18	8807	49.5	-30 37	8.2	9.2	Go	5	..	41375b	68	5491	49.9	-50 38	10.2	9.7	Ao	1	..	9453b
19	6487	49.5	-45 33	10.0	9.9	Ao	2	..	9376b	69	5141	49.9	-51 29	9.4	10.2	Ko	3	..	37600b
20	5488	49.5	-50 54	8.5	9.6	K	1	..	9453b	70	2848	49.9	-59 3	8.4	8.9	Ao	3	1,7	31521b
21	4128	49.5	-54 44	8.9	8.8	A5	4	..	37662b	71	1803	49.9	-62 24	9.7	9.7	Ao	1	..	38798b
22	1346	49.5	-68 35	7.7	8.8	K2	4	..	40075b	72	1060	49.9	-72 12	8.5	9.5	Ko	3	..	40298b
23	592	49.6	+69 6	8.92	9.42	F8	2	..	37554i	73	429	50.0	+74 53	8.04	9.39	Mb	4	..	37742i
24	2179	49.6	+34 26	10.9	11.9	K	1	..	37572i	74	638	50.0	+70 34	8.1	8.5	F5	4	..	37554i
25	3149	49.6	-11 0	8.3	9.3	Ko	2	..	13409b	75	3159	50.0	-15 18	9.8	11.0	K5	1	..	46201b
26	3131	49.6	-19 42	8.1	8.6	A3	7	..	40282b	76	3146	50.0	-16 56	8.9	9.4	F8	2	..	13130b
27	6781	49.6	-36 44	8.2	8.8	G5	3	..	41327b	77	3056	50.0	-18 47	8.9	9.9	Ko	2	..	41220b
28	6761	49.6	-39 41	8.9	9.6	Ko	2	..	41327b	78	9407	50.0	-24 43	9.2	9.5	F8	4	..	40282b
29	6021	49.6	-48 48	8.8	9.3	Ao	4	..	9453b	79	6550	50.0	-46 58	8.5	9.4	Ko	2	..	9453b
30	4215	49.6	-53 23	8.6	9.1	Go	4	R	37662b	80	5493	50.0	-50 55	9.6	9.6	A2	2	..	9453b
31	4215	49.6	-53 23	8.6	9.1	A2	4	R	37662b	81	4137	50.0	-54 19	9.6	10.2	Go	2	..	37600b
32	3943	49.6	-57 42	9.0	10.0	Ko	1	..	40090b	82	3959	50.0	-57 22	9.7	9.7	Ao	2	..	40090b
33	2844	49.6	-58 15	8.6	8.8	B8	5	..	40090b	83	3960	50.0	-57 33	9.7	9.7	Ao	2	..	40090b
34	2365	49.6	-61 8	9.1	9.2	G5	2	..	21154b	84	2369	50.0	-60 9	8.94	9.9	Ko	2	..	21154b
35	1523	49.6	-64 16	8.6	9.2	Go	1	5,1	38834b	85	1157	50.0	-71 46	9.6	9.7	A2	2	..	40298b
36	778	49.6	-73 12	8.9	8.9	Ao	3	..	40298b	86	1831	50.1	+47 26	8.8	9.6	G5	1	..	38308i
37	2160	49.7	+41 59	8.7	9.3	Go	2	..	38308i	87	2277	50.1	+23 42	7.50	8.28	G5	5	..	37504i
38	2386	49.7	-0 23	8.93	10.00	K2	2	..	22977b	88	2392	50.1	+19 5	8.5	9.3	G5	3	..	37504i
39	3247	49.7	-2 19	8.5	8.8	Fo	3	..	22977b	89	8709	50.1	-29 48	7.72	8.5	A2	7	..	41375b
40	3138	49.7	-8 10	8.7	9.7	Ko	1	..	13417b	90	6914	50.1	-44 9	8.2	8.5	F2	4	..	9376b
41	3292	49.7	-20 52	9.1	10.1	K2	2	..	40282b	91	6552	50.1	-46 14	10.0	9.6	G	1	..	9453b
42	7065	49.7	-34 25	9.1	9.0	Go	3	..	41375b	92	6312	50.1	-48 0	9.0	9.4	Ko	2	..	9453b
43	6625	49.7	-43 9	9.1	9.6	G5	1	..	9376b	93	5647	50.1	-49 16	8.8	9.4	Ko	3	..	38416b
44	4218	49.7	-54 2	10.2	10.2	B9	3	..	37600b	94	4220	50.1	-53 28	8.3	10.2	K2	2	..	37662b
45	4131	49.7	-54 57	9.0	9.1	F2	2	..	37662b	95	4138	50.1	-54 11	9.9	10.0	A3	3	..	37600b
46	2845	49.7	-58 59	..	10.6	Oa	1	0,1	21154b	96	4139	50.1	-54 26	8.8	8.3	Ao	5	..	37662b
47	2818	49.7	-59 19	9.9	9.9	Ao	1	..	40090b	97	3981	50.1	-56 19	9.6	9.7	A2	4	..	40090b
48	2366	49.7	-60 47	9.7	9.7	Ao	2	..	21154b	98	2822	50.1	-59 49	8.04	8.8	F5	6	0,4	21154b
49	808	49.8	+65 4	7.30	8.30	Ko	6	0,4-	37716i	99	2370	50.1	-60 34	8.9	10.0	Ma	..	..	M
50	2180	49.8	+34 35	9.7	10.3	Go	2	..	37572i	100	2181	50.2	+34 2	5.23	6.23	Ko	..	5,9	1845c

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2314	50.2	+25 17	4.51	4.51	Ao	..	R	56,88	51	R	50.4	-70 11	6.11	6.1	B8	..	..	56,128
2	2314	50.2	+25 17	6.30	6.30	Ao	..	R	56,88	52	1160	50.4	-71 50	9.0	9.4	F5	3	..	40298b
3	2388	50.2	-0 52	8.5	8.5	Ao	3	..	22977b	53	2715	50.5	+0 40	8.01	8.15	A5	6	5,3	22977b
4	2974	50.2	-11 35	7.70	8.70	Ko	4	..	13409b	54	3298	50.5	-12 54	8.7	8.8	A5	2	..	13409b
5	3149	50.2	-16 16	9.2	10.0	G5	2	..	46201b	55	3224	50.5	-14 44	9.6	10.6	Ko	2	..	46201b
6	7740	50.2	-32 40	8.8	9.4	F8	2	..	41375b	56	3223	50.5	-15 6	8.96	9.96	Ko	3	..	46201b
7	6216	50.2	-41 29	7.1	8.4	Ko	3	..	43044b	57	9411	50.5	-24 13	10.5	10.6	Ao	2	..	40282b
8	4140	50.2	-54 36	9.6	9.7	A5	3	..	37600b	58	8222	50.5	-26 33	10.0	9.8	Go	1	..	41399b
9	3960	50.2	-55 44	9.6	11.0	Mb	1	..	37600b	59	8632	50.5	-31 16	9.0	9.4	Ko	2	..	41375b
10	3984	50.2	-56 22	9.1	10.3	K5	2	..	40090b	60	6220	50.5	-41 43	6.30	6.8	Ao	..	0,8 R	28,205
11	3985	50.2	-57 7	9.1	9.5	Ao	4	..	40090b	61	4012	50.5	-53 2	9.4	10.2	G5	1	..	37662b
12	3967	50.2	-57 13	9.7	9.7	A	2	..	40090b	62	4014	50.5	-53 8	10.2	10.2	Ao	2	..	37662b
13	1955	50.2	-61 30	var.	var.	K5	4	R	21154b	63	2856	50.5	-58 16	..	9.1	Oe5	3	..	40090b
14	1245	50.2	-71 1	8.8	9.1	Fo	4	..	40298b	64	2828	50.5	-60 3	8.94	8.9	F2	3	..	21154b
15	2531	50.3	+20 33	9.6	10.0	F5	2	..	37504i	65	2379	50.5	-61 4	9.7	9.7	B8	2	..	21154b
16	2389	50.3	-0 17	9.01	9.51	F8	2	..	22977b	66	690	50.6	+66 14	8.1	8.9	G5	2	..	37346i
17	3264	50.3	-7 3	8.6	9.0	F5	4	..	13417b	67	691	50.6	+65 50	8.1	8.7	Go	3	..	37346i
18	3141	50.3	-7 37	8.8	9.9	K2	2	..	13417b	68	809	50.6	+65 12	9.0	9.8	G5	1	..	37346i
19	3134	50.3	-20 8	6.55	7.8	Ko	9	..	40282b	69	2162	50.6	+42 33	6.11	7.11	Ko	8	..	38308i
20	3037	50.3	-22 24	8.5	8.1	Ao	8	..	40282b	70	2054	50.6	+33 21	9.7	10.1	F5	2	..	37572i
21	7348	50.3	-33 20	9.1	9.5	Ao	1	..	41375b	71	2420	50.6	+18 41	7.32	8.10	G5	6	..	37504i
22	6918	50.3	-45 4	9.1	9.4	Fo	2	..	9376b	72	2501	50.6	+1 16	6.05	6.39	F2	8	0,10	37731i
23	6555	50.3	-46 24	8.8	9.6	K2	2	..	9453b	73	3039	50.6	-22 30	8.5	8.5	F5	7	..	40282b
24	4007	50.3	-52 42	9.8	10.8	Ko	1	..	37600b	74	3040	50.6	-22 40	9.6	9.4	F8	3	..	40282b
25	4141	50.3	-54 15	8.8	9.1	Fo	3	..	37662b	75	8713	50.6	-30 5	9.10	9.5	K2	1	..	41399b
26	3987	50.3	-56 35	9.4	9.7	Fo	4	..	40090b	76	8823	50.6	-30 45	9.2	8.8	F5	2	..	41375b
27	2376	50.3	-61 0	10.0	10.0	B9	2	..	21154b	77	5148	50.6	-52 1	9.4	9.1	B8	3	..	37662b
28	1741	50.3	-64 5	9.2	9.2	Ao	1	..	38798b	78	5146	50.6	-52 2	10.2	9.4	A2	2	..	37662b
29	1455	50.3	-66 17	9.2	9.3	A3	2	1,2	40075b	79	3967	50.6	-55 38	9.5	9.5	Ao	3	..	37662b
30	570	50.3	-79 26	8.5	9.5	Ko	2	..	21530b	80	3991	50.6	-56 45	9.1	10.2	K2	2	..	40090b
31	1290	50.4	+58 2	6.78	7.56	G5	7	..	37717i	81	2857	50.6	-58 22	9.1	9.1	B9	4	..	40090b
32	1900	50.4	+48 34	8.3	9.1	G5	2	..	38308i	82	2380	50.6	-60 31	8.2	9.5	K5	3	..	21154b
33	1675	50.4	+46 18	7.9	8.9	Ko	3	..	38308i	83	1960	50.6	-61 18	6.05	8.0	K5	3	..	43205b
34	2030	50.4	+43 58	9.6	10.4	G5	2	..	38308i	84	1743	50.6	-63 26	8.7	9.0	F2	3	..	38834b
35	2384	50.4	+7 30	8.9	9.2	F2	3	..	19611b	85	1569	50.6	-67 13	9.5	9.5	Ao	1	..	40075b
36	3265	50.4	-6 17	8.7	9.1	F5	5	..	13417b	86	347	50.7	+80 13	7.23	7.73	F8	7	..	37465i
37	3266	50.4	-6 26	8.7	9.8	K2	4	..	13417b	87	448	50.7	+74 13	8.8	9.8	Ko	3	..	37742i
38	3152	50.4	-10 19	8.31	8.65	F2	3	..	13409b	88	1444	50.7	+53 41	8.7	9.7	Ko	1	..	37717i
39	3153	50.4	-11 8	8.7	9.7	Ko	1	..	13409b	89	2532	50.7	+20 16	8.9	9.9	Ko	2	..	37504i
40	8818	50.4	-30 27	9.8	9.5	A2	2	..	41399b	90	2975	50.7	-5 1	8.25	9.03	G5	7	..	13417b
41	6219	50.4	-41 20	8.1	9.3	K2	3	..	41327b	91	9611	50.7	-23 28	10.3	9.8	F8	3	..	40282b
42	6497	50.4	-46 3	7.9	9.4	K5	2	..	9453b	92	8224	50.7	-26 27	7.12	8.3	Ko	5	..	41399b
43	5503	50.4	-50 42	9.2	9.3	Ao	2	..	9453b	93	7078	50.7	-34 58	8.04	8.4	Ao	4	R	41375b
44	4224	50.4	-54 2	7.6	7.5	B8	7	..	37662b	94	4016	50.7	-52 48	9.1	10.1	Ko	2	..	37662b
45	4145	50.4	-55 5	6.65	8.0	K2	3	..	43205b	95	4015	50.7	-53 0	9.8	10.8	Ko	1	..	37662b
46	3963	50.4	-55 26	9.4	10.2	G5	3	..	37600b	96	3971	50.7	-57 38	9.2	10.2	Ko	1	..	40090b
47	3970	50.4	-57 19	9.7	9.7	Ao	2	..	40090b	97	1810	50.7	-62 48	9.2	9.3	A5	2	..	38798b
48	2827	50.4	-59 20	9.9	9.7	Bo	2	..	40090b	98	1461	50.7	-66 45	9.0	9.0	Ao	3	..	38834b
49	2378	50.4	-60 14	8.54	8.3	B9	4	..	31521b	99	1526	50.8	+52 44	7.97	8.05	A3	4	..	37717i
50	1246	50.4	-70 11	6.11	6.1	B8	..	R	56,128	100	2183	50.8	+33 55	9.2	10.3	K2	3	..	37572i

THE HENRY DRAPER CATALOGUE.

94700

10^h 50^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2203	50.8	+31 35	8.2	8.6	F5	5	..	37572i	51	8828	51.2	-30 16	9.0	10.0	K2	1	..	41399b
2	2394	50.8	+19 23	8.7	9.2	F8	3	..	37504i	52	8830	51.2	-30 58	8.4	9.4	Fo	3	..	41375b
3	2186	50.8	+16 41	7.8	8.4	Go	2	..	37504i	53	7751	51.2	-32 31	8.8	8.8	F5	3	..	41375b
4	2433	50.8	+ 8 14	8.1	8.5	F5	7	..	19611b	54	6645	51.2	-43 47	8.6	9.0	F8	3	..	9376b
5	2369	50.8	+ 6 43	6.05	7.40	Mb	9	..	37731i	55	6565	51.2	-46 29	9.4	9.6	Fo	2	..	9453b
6	2390	50.8	- 0 29	8.3	8.9	Go	3	..	22977b	56	6564	51.2	-46 45	10.0	9.9	Fo	1	..	9453b
7	3162	50.8	-15 50	8.3	8.7	F5	8	..	13130b	57	6042	51.2	-48 43	7.8	8.7	Ko	4	..	9453b
8	3297	50.8	-20 59	8.8	9.5	F5	4	..	40282b	58	4233	51.2	-53 33	7.2	7.2	B9	8	..	37662b
9	8325	50.8	-25 49	9.0	9.2	Go	4	..	41399b	59	4159	51.2	-54 23	9.2	10.2	Ko	3	..	37600b
10	7761	50.8	-27 30	9.2	10.1	A3	1	..	41399b	60	4001	51.2	-57 3	10.2	10.2	Ao	1	..	4009ob
11	6790	50.8	-36 18	8.1	8.7	F5	4	..	41327b	61	2001	51.3	+49 14	9.1	9.6	F8	1	..	38672i
12	5149	50.8	-52 2	9.8	10.1	F2	4	..	37600b	62	2387	51.3	+40 15	8.4	8.7	F2	4	E	38308i
13	R	50.8	-53 34	..	..	Ma	1	..	37600b	63	2137	51.3	+37 43	9.2	9.2	A	2	E	37582i
14	3974	50.8	-58 2	8.9	8.8	Ao	4	..	4009ob	64	2422	51.3	+18 11	8.3	8.4	A3	4	..	37504i
15	2833	50.8	-59 21	8.0	9.2	Ao	3	..	4009ob	65	2434	51.3	+ 7 56	7.9	8.9	Ko	10	..	19611b
16	748	50.8	-74 51	8.9	8.9	Ao	4	..	40298b	66	2370	51.3	+ 5 48	7.7	7.8	A2	5	..	37731i
17	589	50.8	-79 2	6.12	8.3	K2	6	..	21530b	67	3061	51.3	-18 59	8.8	9.6	G5	5	..	41220b
18	1952	50.9	+28 16	8.6	9.6	Ko	3	..	38208i	68	3300	51.3	-20 34	8.9	9.2	F5	5	..	40282b
19	2287	50.9	+23 48	7.23	8.01	G5	6	..	37504i	69	3042	51.3	-22 21	8.7	9.7	K5	3	..	40282b
20	2279	50.9	+22 54	6.24	7.31	K2	7	..	37504i	70	9415	51.3	-24 9	9.6	11.0	Go	1	..	40282b
21	2533	50.9	+20 35	9.6	10.2	G	1	..	37504i	71	7085	51.3	-34 35	7.41	8.1	Go	5	..	41375b
22	3251	50.9	- 2 21	8.5	9.1	Go	3	..	22977b	72	4030	51.3	-53 5	9.8	10.8	Ko	1	..	37600b
23	3166	50.9	- 6 5	9.3	10.1	G5	2	..	13417b	73	3983	51.3	-57 45	10.2	10.2	A	1	..	4009ob
24	6595	50.9	-42 29	6.66	7.4	Ao	7	..	43044b	74	2844	51.3	-59 13	9.4	9.4	Ao	2	..	4009ob
25	4018	50.9	-52 43	9.5	9.6	A2	3	..	37662b	75	2839	51.3	-59 22	9.5	9.5	B8	3	..	4009ob
26	1163	50.9	-71 37	7.8	7.8	Ao	7	..	40298b	76	2840	51.3	-59 59	var.	7.2	Ko	..	0.5 R	28,205
27	1445	51.0	+52 56	8.7	9.7	K	1	R	38672i	77	2386	51.3	-60 24	var.	var.	F8	4	R	21154b
28	2184	51.0	+34 10	10.9	11.4	F8	2	..	37572i	78	1297	51.4	+60 39	8.5	8.8	Fo	3	..	37716i
29	2391	51.0	- 1 5	8.1	8.4	Fo	7	0.3	22977b	79	1833	51.4	+47 26	8.5	8.6	A2	3	..	38308i
30	3186	51.0	-21 46	9.6	9.8	G5	2	..	40282b	80	2435	51.4	+ 7 49	9.5	10.7	K5	1	..	19611b
31	5151	51.0	-52 7	7.5	8.1	Fo	6	..	37662b	81	3172	51.4	-10 5	7.41	8.48	K2	4	..	13409b
32	2863	51.0	-58 18	9.4	9.4	Ao	2	..	4009ob	82	3306	51.4	-12 15	8.8	9.1	Fo	2	..	13409b
33	2382	51.0	-60 56	8.8	8.8	B8	3	..	21154b	83	9416	51.4	-25 3	8.52	9.5	Ko	5	..	40282b
34	1962	51.0	-61 8	9.1	9.2	A2	3	..	21154b	84	8537	51.4	-28 43	9.2	9.5	Ao	3	..	41399b
35	2385	51.1	+40 21	8.2	9.2	Ko	1	E	38308i	85	6567	51.4	-47 3	7.9	8.2	Ao	6	..	9453b
36	2186	51.1	+33 52	10.4	11.2	G5	2	..	37572i	86	4165	51.4	-55 7	9.30	9.1	B8	4	..	37662b
37	2205	51.1	+31 38	9.6	10.0	F5	2	..	37572i	87	3975	51.4	-55 27	10.2	10.3	A2	2	..	37600b
38	2502	51.1	+ 0 58	6.86	7.86	Ko	7	2.3	22977b	88	4005	51.4	-56 17	9.4	9.4	Ao	4	..	4009ob
39	3226	51.1	-14 30	9.3	10.1	G5	3	..	46201b	89	3987	51.4	-58 5	8.4	9.7	K5	2	..	4009ob
40	7764	51.1	-27 17	7.8	9.8	K2	2	..	41399b	90	320	51.5	+81 48	9.0	9.1	A5	2	..	37465i
41	8637	51.1	-31 15	7.18	7.6	Ao	7	..	41375b	91	406	51.5	+76 16	7.64	8.06	F5	5	..	37465i
42	6602	51.1	-43 7	9.0	9.9	Ko	1	..	9376b	92	2164	51.5	+41 52	7.38	7.94	Go	5	..	38308i
43	5154	51.1	-51 15	10.0	10.2	Ao	4	..	37600b	93	2196	51.5	+35 44	8.4	9.4	Ko	4	0.4	37582i
44	4028	51.1	-52 41	9.3	9.3	B9	3	..	37662b	94	2319	51.5	+14 7	8.1	8.6	F8	8	2.4	4905m
45	1436	51.1	-69 31	8.5	8.9	F5	3	..	40075b	95	3220	51.5	-15 2	8.6	9.7	K2	2	..	13130b
46	1153	51.2	+61 58	8.7	9.1	F5	4	..	37716i	96	3139	51.5	-20 3	9.6	10.3	K5	2	..	40282b
47	2152	51.2	+26 2	6.40	7.40	Ko	..	0.6	56,88	97	6789	51.5	-39 33	8.8	9.4	K5	2	..	41327b
48	3020	51.2	- 3 19	8.9	9.9	Ko	1	..	22977b	98	6398	51.5	-40 40	7.9	9.1	K5	3	..	41327b
49	3299	51.2	-20 35	8.9	10.0	K5	1	..	40282b	99	5671	51.5	-49 45	9.2	9.0	Fo	3	..	9453b
50	9620	51.2	-23 30	8.10	8.9	Ko	5	..	40282b	100	3978	51.5	-55 51	10.2	10.3	A3	2	..	37600b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

94800

10^h 51^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4007	51.5	56 40	8.9	9.4	Fo	4	..	4009ob	51	3140	51.9	20 7	9.08	9.4	Ao	4	..	40282b
2	4006	51.5	56 45	9.0	10.0	Ko	1	..	4009ob	52	8338	51.9	25 49	9.0	9.5	K5	2	..	41399b
3	3989	51.5	57 15	10.1	10.2	A3	1	..	4009ob	53	7370	51.9	34 2	8.5	8.8	G5	3	..	41375b
4	2868	51.5	58 43	8.9	9.2	Fo	3	..	4009ob	54	6572	51.9	46 55	10.2	9.1	B5	3	..	9453b
5	1582	51.5	67 48	8.3	8.3	Ao	7	..	40075b	55	5520	51.9	50 45	10.9	10.2	G	3	..	3760ob
6	2032	51.6	+44 29	8.5	9.3	G5	3	..	38308i	56	3985	51.9	55 38	9.9	10.2	Fo	3	..	3760ob
7	2716	51.6	+ 0 12	8.9	9.2	F2	4	3,2	22977b	57	3986	51.9	55 54	8.9	9.4	B9	4	..	37662b
8	2392	51.6	- 0 37	8.1	8.2	A3	7	2,3	22977b	58	2872	51.9	58 11	9.9	10.0	A5	1	..	4009ob
9	2977	51.6	- 4 16	8.9	9.2	Fo	1	..	22977b	59	312	52.0	+83 46	8.7	9.2	F8	4	E	37465i
10	3043	51.6	-23 3	10.7	10.1	F5	2	..	40282b	60	367	52.0	+78 18	6.26	7.04	G5	8	..	37465i
11	5161	51.6	-51 32	10.9	10.5	Ao	3	..	3760ob	61	1155	52.0	+62 30	8.1	8.7	Go	6	..	37716i
12	2870	51.6	-59 7	10.0	10.0	B9	2	..	4009ob	62	1490	52.0	+55 58	7.8	8.6	G5	3	..	37717i
13	1355	51.6	-68 45	9.7	9.7	Ao	1	..	40075b	63	2002	52.0	+49 19	8.7	9.2	F8	2	..	38672i
14	1168	51.6	-71 11	9.1	9.7	G	1	..	40298b	64	2718	52.0	+ 0 14	6.87	7.29	F5	7	0,9	37731i
15	810	51.7	+64 52	9.05	9.61	G	2	..	37346i	65	3262	52.0	-17 41	8.7	9.7	Ko	2	..	4122ob
16	1154	51.7	+62 17	9.0	9.1	A2	3	..	37716i	66	3261	52.0	-17 57	8.6	9.7	K2	3	..	4122ob
17	1429	51.7	+55 21	8.5	9.3	G5	2	..	37717i	67	3192	52.0	-21 30	7.7	9.1	Ma	4	..	40282b
18	2108	51.7	+29 29	9.2	10.2	Ko	1	..	38711i	68	9629	52.0	-23 28	10.3	10.5	G5	1	..	40282b
19	2397	51.7	+ 3 59	8.5	9.7	K5	1	..	19611b	69	8649	52.0	-32 5	9.2	9.2	Ao	2	..	41375b
20	3260	51.7	-17 28	9.3	9.9	G	2	..	4122ob	70	7765	52.0	-33 0	8.8	8.8	Ao	4	..	41375b
21	3259	51.7	-18 8	8.5	9.1	Go	3	..	4122ob	71	6849	52.0	-36 3	9.1	9.3	Go	3	..	41327b
22	3189	51.7	-21 52	9.6	9.8	F5	2	..	40282b	72	5521	52.0	-50 47	9.1	10.4	K5	2	..	3760ob
23	8833	51.7	-30 25	9.2	9.5	F5	1	..	41399b	73	5168	52.0	-52 4	8.2	8.4	B8	5	..	37662b
24	6331	51.7	-47 57	9.0	10.2	K2	1	..	9453b	74	4243	52.0	-53 49	9.8	10.3	F8	2	..	3760ob
25	4172	51.7	-54 42	9.0	9.5	Ko	2	..	37662b	75	4174	52.0	-54 8	8.6	9.7	K2	3	..	37662b
26	3981	51.7	-55 56	9.9	10.0	A2	2	..	37662b	76	3998	52.0	-57 32	8.4	8.5	Ao	6	..	4009ob
27	4010	51.7	-56 22	8.9	9.4	K2	4	..	4009ob	77	2873	52.0	-58 59	8.7	8.8	G5	5	..	21154b
28	2850	51.7	-59 55	8.9	9.7	A	2	..	21154b	78	2855	52.0	-59 52	8.5	8.9	Pec.	..	0,4 R	28,205
29	2390	51.7	-60 41	9.6	9.4	B3	2	..	21154b	79	624	52.1	+68 8	8.5	9.5	Ko	3	5,2	37554i
30	2388	51.7	-60 57	9.2	9.2	Ao	4	..	21154b	80	1299	52.1	+59 48	8.26	8.82	Go	5	..	37716i
31	1489	51.8	+56 22	8.5	8.6	A3	5	..	37717i	81	1450	52.1	+52 58	8.6	8.9	Fo	3	..	37717i
32	1905	51.8	+48 18	7.86	8.36	F8	5	..	38308i	82	1527	52.1	+52 1	7.9	9.0	K2	2	..	38672i
33	2153	51.8	+25 49	8.9	9.5	Go	2	..	38208i	83	2207	52.1	+31 12	7.86	7.92	A2	7	..	37572i
34	2291	51.8	+24 41	7.61	8.61	Ko	4	0,3	38208i	84	3172	52.1	- 5 44	9.3	9.3	Ao	2	..	13417b
35	2290	51.8	+22 21	7.84	8.40	Go	6	..	37504i	85	3173	52.1	- 5 58	8.8	9.3	F8	4	..	13417b
36	3254	51.8	- 2 24	8.9	9.0	A5	3	..	22977b	86	3174	52.1	- 9 25	8.5	9.3	G5	2	..	13409b
37	3230	51.8	-14 21	8.1	9.1	Ko	5	..	13130b	87	3302	52.1	-21 2	9.1	9.8	Ko	2	..	40282b
38	3152	51.8	-16 54	8.3	9.1	G5	5	..	13130b	88	3046	52.1	-22 52	9.2	9.4	F5	4	..	40282b
39	3301	51.8	-20 44	7.9	8.3	A2	8	..	40282b	89	7766	52.1	-32 48	8.8	9.5	K5	1	..	41375b
40	6334	51.8	-47 33	7.5	7.8	Ko	4	..	9453b	90	6808	52.1	-36 36	4.70	6.6	Ko	..	0, R	28,205
41	6046	51.8	-49 1	8.8	9.3	Ko	1	..	9453b	91	6797	52.1	-40 2	8.49	8.2	Go	5	..	41327b
42	5677	51.8	-49 33	9.4	9.3	Ao	2	..	9453b	92	6236	52.1	-41 30	8.5	8.1	Fo	5	5,2	41327b
43	5519	51.8	-50 47	9.1	10.1	K2	3	..	3760ob	93	6339	52.1	-47 48	8.3	8.1	Fo	7	..	9453b
44	4173	51.8	-55 2	8.25	8.8	Fo	4	..	37662b	94	5680	52.1	-49 44	9.0	8.7	F5	3	..	9453b
45	3983	51.8	-55 38	10.2	10.2	B9	3	..	3760ob	95	5170	52.1	-51 37	11.5	10.8	A2	2	..	3760ob
46	3995	51.8	-57 32	8.4	10.0	K2	1	..	4009ob	96	4244	52.1	-53 27	10.0	10.0	Ao	1	..	37662b
47	640	51.9	+70 21	8.01	8.29	Fo	5	..	37554i	97	4178	52.1	-54 22	8.2	9.1	K2	4	..	37662b
48	2265	51.9	+21 41	8.0	8.4	F5	5	..	37504i	98	4002	52.1	-57 31	7.12	8.5	Ma	5	..	4009ob
49	2189	51.9	+16 10	10.3	10.9	Go	2	..	4905m	99	2858	52.1	-59 16	9.7	9.7	Ao	2	0,2	4009ob
50	2321	51.9	+14 35	9.5	10.3	G5	4	..	4905m	100	2859	52.1	-59 24	9.1	9.2	B5	4	..	21154b

THE HENRY DRAPER CATALOGUE.

94900

10^h 52^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	554	52.2	+71 9	9.6	10.4	G5	2	..	37554i	51	2981	52.6	-11 37	8.7	9.7	Ko	1	..	13409b
2	641	52.2	+70 32	7.37	8.72	Ma	5	..	37554i	52	3265	52.6	-17 46	8.17	9.17	Ko	4	..	41220b
3	2198	52.2	+35 9	9.3	9.8	F8	4	..	37582i	53	9634	52.6	-23 24	9.6	10.5	G5	1	..	40282b
4	2720	52.2	+0 23	8.5	9.6	K2	3	..	22977b	54	9425	52.6	-24 46	9.0	10.4	K2	3	..	40282b
5	3046	52.2	-8 18	9.3	9.9	Go	1	..	13417b	55	7782	52.6	-27 33	9.6	10.7	A	1	..	41399b
6	8839	52.2	-30 40	7.29	7.6	Fo	6	..	41375b	56	8551	52.6	-28 44	7.8	9.5	G5	3	..	41399b
7	8651	52.2	-32 1	9.2	9.4	Ao	2	..	41375b	57	6855	52.6	-35 41	9.2	9.6	K5	2	..	41327b
8	4015	52.2	-56 19	8.6	9.4	K5	3	..	40090b	58	4041	52.6	-52 40	9.1	9.9	G5	2	..	37662b
9	4016	52.2	-57 1	7.2	7.6	Bo	8	..	40090b	59	4249	52.6	-53 20	8.9	9.1	A2	4	..	37662b
10	2860	52.2	-59 55	7.64	7.3	Pec.	..	0,5 R	28,205	60	4022	52.6	-56 22	8.8	8.8	Ao	5	..	40090b
11	1442	52.2	-69 8	9.0	10.0	Ko	1	..	40075b	61	2863	52.6	-59 59	9.04	9.4	Ko	2	..	21154b
12	1069	52.2	-72 47	9.8	9.9	A2	1	..	40298b	62	2867	52.6	-60 1	10.0	10.0	A	2	..	21154b
13	811	52.3	+65 35	8.5	9.5	Ko	2	..	37346i	63	1975	52.6	-61 11	7.6	6.9	Bo	6	..	31521b
14	3255	52.3	-14 7	9.6	10.1	F8	2	..	46201b	64	751	52.6	-74 39	7.3	7.9	Go	7	..	40298b
15	3232	52.3	-15 12	8.51	9.29	G5	2	..	13130b	65	212	52.6	-86 53	10.5	10.5	A	2	..	13459b
16	3164	52.3	-16 4	9.6	10.1	F8	4	..	46201b	66	2319	52.7	+24 55	7.86	8.86	Ko	4	..	38208i
17	3304	52.3	-21 7	9.3	9.4	F5	3	..	40282b	67	2267	52.7	+15 0	8.1	9.1	Ko	7	0,4-	4905m
18	7778	52.3	-27 56	8.2	9.8	K2	2	..	41399b	68	2323	52.7	+13 52	9.7	10.8	K2	1	..	4905m
19	6951	52.3	-44 49	8.6	8.7	A5	3	..	9376b	69	2226	52.7	+10 13	9.3	10.1	G5	2	..	19611b
20	5683	52.3	-50 4	7.44	7.4	F2	7	..	9453b	70	3047	52.7	-8 58	9.3	9.7	F5	2	..	13417b
21	4182	52.3	-54 20	8.5	8.2	Ao	6	..	37662b	71	6936	52.7	-37 11	8.8	9.3	G5	2	..	41327b
22	4184	52.3	-54 41	9.9	10.0	A5	2	..	37662b	72	6659	52.7	-43 15	9.4	9.3	A3	2	..	9376b
23	1969	52.3	-61 10	8.4	8.3	B5	4	..	38834i	73	6954	52.7	-44 17	7.1	7.2	Fo	3	..	43044b
24	1363	52.3	-68 16	7.9	7.9	Ao	7	..	40075b	74	3993	52.7	-55 38	9.9	10.0	A2	4	..	37600b
25	2199	52.4	+35 41	9.6	9.7	A5	3	..	37582i	75	4023	52.7	-56 20	8.9	9.5	K5	2	..	40090b
26	2427	52.4	+18 30	7.9	8.0	A5	4	..	37504i	76	4007	52.7	-58 8	8.1	8.8	Ko	4	..	40090b
27	2191	52.4	+16 18	7.77	8.11	F2	6	3,8	37504i	77	322	52.8	+82 13	8.7	9.2	F8	2	..	37465i
28	3155	52.4	-16 24	9.8	10.6	G5	1	..	46201b	78	676	52.8	+66 50	8.3	8.6	F2	2	..	37346i
29	3264	52.4	-17 45	8.6	8.9	Fo	4	..	41220b	79	2139	52.8	+37 34	8.6	9.4	G5	3	..	37582i
30	6842	52.4	-38 14	8.5	8.2	Fo	4	..	41327b	80	2268	52.8	+15 26	8.9	9.0	A3	4	..	4905m
31	6578	52.4	-46 36	10.0	9.3	A2	3	..	9453b	81	2330	52.8	+13 2	9.5	10.1	Go	2	..	4905m
32	4039	52.4	-52 58	10.1	10.2	A2	2	..	37662b	82	6805	52.8	-39 52	9.5	9.6	Ko	1	..	41327b
33	4185	52.4	-54 39	8.9	9.7	G5	2	..	37662b	83	6406	52.8	-40 26	7.9	8.5	Ao	3	..	43044b
34	3989	52.4	-55 59	9.6	9.7	A2	3	..	37662b	84	5688	52.8	-49 12	8.2	8.7	Ko	3	..	9453b
35	2862	52.4	-59 30	8.3	8.8	B5	7	..	21154b	85	5534	52.8	-50 14	6.16	7.0	A3	..	1,10	56,128
36	2395	52.4	-60 50	9.6	9.4	B2	3	..	21154b	86	4250	52.8	-54 4	9.4	9.4	Ao	3	..	37662b
37	368	52.5	+78 13	8.1	8.6	F8	3	..	37465i	87	4025	52.8	-57 3	8.9	9.1	B9	4	..	40090b
38	2210	52.5	+31 38	8.28	8.36	A3	6	..	37572i	88	2869	52.8	-59 36	9.0	9.1	B3	4	..	21154b
39	2266	52.5	+14 57	10.3	11.1	G5	1	..	4905m	89	1557	52.8	-64 46	8.8	9.2	F5	2	..	38798b
40	2328	52.5	+13 15	9.3	9.6	F2	5	..	4905m	90	2211	52.9	+31 16	8.6	9.6	Ko	2	..	37572i
41	3159	52.5	-10 32	8.3	8.6	Fo	4	..	13409b	91	1960	52.9	+26 56	8.8	9.6	G5	1	..	38208i
42	8660	52.5	-31 30	8.3	8.8	A3	4	..	41375b	92	2193	52.9	+16 2	8.7	9.2	F8	5	2,2	4905m
43	3992	52.5	-55 56	9.7	9.7	Ao	2	..	37662b	93	8745	52.9	-29 44	9.0	9.4	Ko	2	..	41399b
44	2879	52.5	-58 19	9.1	9.1	Ao	3	..	40090b	94	8664	52.9	-31 23	9.5	10.0	K2	2	..	41375b
45	1565	52.5	-65 36	9.3	9.3	Ao	1	..	40075b	95	6938	52.9	-37 19	7.7	8.4	A2	6	..	41327b
46	417	52.6	+77 10	8.7	9.5	G5	2	..	37465i	96	6347	52.9	-47 32	10.2	10.0	Go	3	..	38416b
47	1156	52.6	+62 15	8.2	9.2	Ko	5	..	37716i	97	4193	52.9	-54 56	8.9	9.1	A2	3	..	37662b
48	2156	52.6	+26 42	8.9	9.2	Fo	2	..	38208i	98	4009	52.9	-57 31	9.7	9.7	Ao	2	..	40090b
49	2431	52.6	+9 34	9.7	10.2	F8	3	..	19611b	99	2406	52.9	-60 53	9.1	9.2	A3	4	..	21154b
50	3147	52.6	-7 45	9.1	10.3	K5	2	..	13417b	100	431	53.0	+75 20	8.02	8.36	F2	3	E	37465i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

95000

10^h 53^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1432	m. 53.0	° 55 33	8.1	8.9	G5	4	..	37717i	51	5545	m. 53.3	° 50 28	9.6	10.2	Ao	3	..	37600b
2	2195	53.0	+16 13	9.3	9.6	Fo	6	..	4905m	52	4052	53.3	-52 56	9.4	9.9	F8	3	..	37662b
3	2331	53.0	+12 58	10.7	11.5	G5	1	..	4905m	53	4004	53.3	-55 50	10.3	10.3	Ao	2	..	37600b
4	2227	53.0	+10 15	7.78	8.85	K2	7	..	19611b	54	4038	53.3	-56 28	9.3	9.4	A2	4	..	4009ob
5	3312	53.0	-13 5	9.8	10.4	Go	2	..	46201b	55	2889	53.3	-58 29	9.9	10.0	A2	2	..	4009ob
6	3157	53.0	-16 26	9.8	10.4	Go	1	..	46201b	56	2413	53.3	-60 34	9.1	8.9	B9	4	..	21154b
7	3067	53.0	-19 12	9.3	9.8	G5	2	..	4122ob	57	1528	53.4	+52 26	6.34	7.34	Ko	7	..	37717i
8	9636	53.0	-23 30	8.3	9.4	Ko	4	..	40282b	58	2188	53.4	+33 52	8.4	9.0	Go	5	..	37572i
9	6409	53.0	-40 35	7.5	8.5	F2	3	..	43044b	59	2159	53.4	+26 14	8.7	9.5	G5	1	..	38208i
10	6544	53.0	-45 54	8.9	8.9	G5	3	..	9376b	60	2295	53.4	+22 12	8.7	9.2	F8	3	..	37504i
11	6056	53.0	-48 51	9.4	8.7	Ao	5	..	9453b	61	2325	53.4	+14 39	10.7	11.8	K2	1	..	4905m
12	4044	53.0	-52 31	8.9	9.0	B9	3	..	37662b	62	2332	53.4	+13 17	10.7	11.7	K	1	..	4905m
13	R	53.0	-52 34	..	..	Mb	..	..	M	63	3165	53.4	-10 52	8.9	10.0	K2	1	..	13409b
14	4252	53.0	-53 25	9.4	9.4	Ao	3	..	37662b	64	8558	53.4	-28 42	7.80	8.9	K2	5	..	41399b
15	3999	53.0	-55 12	9.05	9.1	Ao	3	..	37662b	65	6253	53.4	-41 30	8.1	7.8	A2	5	..	43044b
16	3998	53.0	-55 49	9.2	10.3	K2	2	..	37600b	66	6062	53.4	-44 47	9.8	8.9	Ao	3	..	9376b
17	2874	53.0	-59 16	8.2	9.2	Ko	2	5,2	21154b	67	6550	53.4	-45 24	9.4	9.2	F8	2	..	9376b
18	2873	53.0	-59 55	8.8	8.8	B8	5	..	21154b	68	4008	53.4	-55 46	9.6	9.7	A2	4	..	37600b
19	2408	53.0	-60 24	8.9	9.7	Ko	2	..	21154b	69	4010	53.4	-55 53	10.3	10.3	A	2	..	37600b
20	2409	53.0	-60 34	9.1	9.1	Ao	2	..	21154b	70	4019	53.4	-57 26	9.4	9.4	Ao	3	..	4009ob
21	1595	53.0	-67 15	9.4	9.5	A3	1	..	40075b	71	1599	53.4	-67 36	8.5	9.5	Ko	1	..	40075b
22	2300	53.1	+17 9	8.1	8.9	G5	2	..	37504i	72	2146	53.5	+41 31	8.5	9.3	G5	3	..	38308i
23	2324	53.1	+13 49	8.3	8.7	F5	4	0,7	38228i	73	2286	53.5	+23 42	10.2	10.2	A	2	E	37504i
24	3149	53.1	-7 19	9.3	9.7	F5	1	..	13417b	74	2400	53.5	+19 7	10.0	11.0	K	1	..	37504i
25	3195	53.1	-21 28	7.54	8.2	F5	9	..	40282b	75	2377	53.5	+5 54	8.9	9.3	F5	5	..	19611b
26	6410	53.1	-40 47	8.0	9.1	Ko	3	..	41327b	76	3274	53.5	-6 31	8.9	9.9	Ko	1	..	13417b
27	6546	53.1	-45 20	6.83	7.3	Ko	6	..	9376b	77	3159	53.5	-17 2	9.8	10.4	Go	1	..	46201b
28	5541	53.1	-50 32	9.2	9.0	Ao	4	..	9453b	78	8855	53.5	-31 2	8.2	8.0	Fo	4	..	41375b
29	5183	53.1	-51 18	8.9	8.7	Bo	3	..	37662b	79	8671	53.5	-31 15	9.3	9.4	F5	1	..	41375b
30	4001	53.1	-55 50	10.0	10.0	Ao	3	..	37600b	80	7109	53.5	-35 2	8.54	8.7	Ao	3	..	41375b
31	4036	53.1	-56 58	9.7	9.7	Ao	2	..	4009ob	81	6857	53.5	-38 11	8.0	8.4	A2	5	..	41327b
32	2410	53.1	-60 39	8.9	9.1	A3	6	..	21154b	82	5192	53.5	-51 25	10.0	9.7	A2	4	..	37600b
33	348	53.2	+79 25	7.56	8.34	G5	5	..	37465i	83	4055	53.5	-52 9	7.2	8.5	Ko	4	..	37662b
34	2291	53.2	+22 26	8.0	8.8	G5	4	..	37504i	84	4257	53.5	-53 57	8.9	9.4	F8	3	..	37662b
35	2292	53.2	+21 47	8.30	9.65	Ma	3	..	37504i	85	2891	53.5	-58 11	8.8	8.3	B9	5	..	4009ob
36	2398	53.2	+19 9	8.9	9.0	A2	3	..	37504i	86	1373	53.5	-68 8	7.5	7.6	A2	8	..	40075b
37	2301	53.2	+17 43	8.9	9.7	G5	2	..	37504i	87	1337	53.6	+59 36	9.11	9.53	F5	3	..	37716i
38	2196	53.2	+16 37	10.7	11.5	G5	1	..	4905m	88	2036	53.6	+44 25	8.3	9.1	G5	4	..	38308i
39	2983	53.2	-11 51	8.7	9.1	F5	3	..	13409b	89	2373	53.6	+2 16	7.9	8.9	Ko	3	..	13388b
40	7786	53.2	-27 47	8.6	9.8	Ko	2	..	41399b	90	8673	53.6	-32 4	8.1	9.2	G5	2	..	41375b
41	7104	53.2	-35 6	8.64	8.1	A5	4	..	41375b	91	6865	53.6	-35 8	7.84	8.7	Go	4	..	41375b
42	2886	53.2	-58 34	9.1	9.2	Ao	3	..	4009ob	92	5547	53.6	-50 32	9.8	10.4	F8	2	..	37600b
43	2412	53.2	-60 11	9.48	8.8	B8	4	..	21154b	93	4013	53.6	-55 47	9.7	9.7	Ao	2	..	37662b
44	2411	53.2	-60 19	9.1	8.6	Ao	5	..	21154b	94	2892	53.6	-59 5	9.5	9.5	Ao	2	2,2	4009ob
45	1879	53.3	+45 44	7.00	8.00	Ko	7	..	38308i	95	2883	53.6	-59 33	9.4	9.2	B	3	..	21154b
46	2293	53.3	+22 3	7.70	7.84	A5	7	..	37504i	96	1990	53.6	-61 58	8.6	9.5	Ko	2	..	38798b
47	2538	53.3	+20 10	6.94	7.94	Ko	5	..	37504i	97	785	53.6	-74 5	9.1	9.9	G5	1	..	40298b
48	2197	53.3	+16 39	9.7	10.5	G5	3	..	4905m	98	1338	53.7	+59 28	7.26	8.33	K2	6	..	37716i
49	2270	53.3	+14 57	9.7	10.5	G5	2	..	4905m	99	2401	53.7	+19 38	9.20	10.55	Ma	1	..	37504i
50	3069	53.3	-18 50	9.1	9.4	F2	4	..	4122ob	100	2428	53.7	+18 16	7.9	9.0	K2	2	..	37504i

THE HENRY DRAPER CATALOGUE.

95100

10^h 53^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2273	53.7	+15 0	10.7	11.7	Ko	1	..	4905m	51	4022	54.0	-55 32	9.7	9.7	B9	2	..	37662b
2	2465	53.7	-1 42	8.1	9.1	Ko	7	..	22977b	52	2896	54.0	-58 37	8.7	9.7	G5	2	..	4009ob
3	9646	53.7	-23 40	7.99	8.9	K2	6	..	40282b	53	1999	54.0	-61 59	9.4	9.4	B9	1	..	38798b
4	9645	53.7	-24 1	8.14	9.1	K2	5	..	40282b	54	1834	54.0	-62 24	9.6	9.7	A2	2	..	38798b
5	6833	53.7	-36 37	9.1	9.9	Ko	1	..	41327b	55	643	54.1	+70 8	8.1	8.9	G5	3	..	37554i
6	4044	53.7	-56 26	9.4	9.4	Ao	4	..	4009ob	56	2200	54.1	+16 6	7.6	8.6	Ko	3	2,7	37504i
7	4026	53.7	-57 25	8.7	8.5	B8	7	..	4009ob	57	2333	54.1	+12 57	10.7	11.7	K	1	..	4905m
8	4027	53.7	-57 31	8.5	10.0	K5	2	..	4009ob	58	3308	54.1	-20 38	9.1	9.4	A5	4	..	40282b
9	2888	53.7	-59 12	var.	var.	Go	4	R	43205b	59	3199	54.1	-21 25	9.3	10.3	K2	1	..	40282b
10	1992	53.7	-61 33	8.4	9.4	K2	3	2,2	21154b	60	6417	54.1	-41 2	7.5	7.7	A2	3	..	43044b
11	1601	53.7	-67 17	9.4	9.5	A2	2	..	40075b	61	5196	54.1	-51 37	8.9	10.2	Ko	4	..	3760ob
12	2429	53.8	+18 23	7.37	8.37	Ko	5	..	37504i	62	4065	54.1	-52 22	9.3	9.9	Go	5	..	3760ob
13	3024	53.8	-4 8	8.1	9.3	K5	3	..	22977b	63	2899	54.1	-58 34	8.7	9.4	Ao	3	..	4009ob
14	8358	53.8	-25 34	9.5	9.8	G5	2	..	40282b	64	2281	54.2	+12 27	8.9	9.7	G5	1	..	38666i
15	8857	53.8	-30 30	9.0	9.4	Fo	3	..	41375b	65	2282	54.2	+12 10	9.3	9.8	F8	2	..	38666i
16	5549	53.8	-50 45	9.4	10.2	Ko	3	..	3760ob	66	3310	54.2	-21 10	9.6	10.0	Ko	2	..	40282b
17	4061	53.8	-52 26	9.7	9.7	Ao	4	..	3760ob	67	6841	54.2	-36 46	9.1	9.3	K2	1	..	41327b
18	4261	53.8	-53 13	9.9	10.0	A2	3	..	3760ob	68	6606	54.2	-46 55	10.0	9.5	A2	2	..	9453b
19	4018	53.8	-55 15	6.85	8.3	Ko	4	2,2	37662b	69	5197	54.2	-51 25	9.6	9.4	Ao	3	..	37662b
20	4017	53.8	-55 45	8.5	9.4	G5	3	..	37662b	70	4204	54.2	-54 12	8.8	10.0	K2	1	..	37662b
21	1832	53.8	-62 12	9.1	9.1	B9	2	..	38834b	71	4023	54.2	-56 7	8.5	9.7	K5	4	..	4009ob
22	1377	53.8	-68 30	6.84	6.5	B8	9	..	40075b	72	4052	54.2	-56 50	8.9	8.8	B9	5	..	4009ob
23	1453	53.8	-69 27	8.7	9.7	Ko	1	..	40075b	73	2189	54.3	+34 10	10.0	11.0	K	1	..	37572i
24	1453	53.9	+52 48	8.6	9.0	F5	2	..	38672i	74	2161	54.3	+25 59	8.7	9.7	Ko	3	..	38208i
25	1643	53.9	+51 27	7.7	8.5	G5	2	..	37717i	75	2430	54.3	+18 33	8.5	9.5	Ko	1	..	3777oi
26	1679	53.9	+46 20	8.6	8.6	Ao	3	..	38308i	76	2334	54.3	+13 21	10.3	11.1	G5	2	..	4905m
27	2038	53.9	+44 21	8.3	9.3	Ko	3	..	38308i	77	2445	54.3	+7 47	8.3	9.1	G5	8	..	19611b
28	2147	53.9	+40 58	5.14	5.70	Go	9	O, R	38658i	78	3182	54.3	-9 47	7.06	7.06	Ao	9	..	13409b
29	2139	53.9	+36 40	6.22	7.57	Ma	7	..	37572i	79	3162	54.3	-16 34	8.8	9.9	K2	2	..	4122ob
30	2198	53.9	+15 50	10.7	11.5	G5	1	..	4905m	80	3163	54.3	-17 5	7.9	8.0	A2	7	..	4122ob
31	2274	53.9	+15 39	10.7	11.3	Go	1	..	4905m	81	3311	54.3	-21 5	10.0	10.0	F8	2	..	40282b
32	2392	53.9	+7 28	8.5	9.0	F8	7	..	19611b	82	3049	54.3	-22 42	7.9	8.2	Fo	8	..	40282b
33	3055	53.9	-8 19	9.3	10.5	K5	1	..	13417b	83	7798	54.3	-27 55	9.2	9.5	G5	2	..	41399b
34	3316	53.9	-12 25	9.2	9.2	Ao	2	..	46201b	84	5200	54.3	-51 31	8.8	8.7	A2	5	..	37662b
35	8566	53.9	-28 36	8.1	9.5	G5	3	..	41399b	85	1767	54.3	-63 51	8.7	9.0	Fo	3	..	38834b
36	6817	53.9	-39 23	8.9	9.0	G5	3	..	41327b	86	1386	54.3	-68 13	9.2	9.2	Ao	2	..	40075b
37	6968	53.9	-44 24	7.4	8.4	Ko	4	..	9376b	87	1301	54.4	+56 59	9.4	10.5	K2	2	..	37717i
38	5551	53.9	-50 15	10.0	10.2	A2	2	..	3760ob	88	2163	54.4	+25 50	8.9	9.7	G5	2	..	38208i
39	4262	53.9	-53 48	7.7	9.1	Ko	4	..	37662b	89	2288	54.4	+23 30	9.0	9.4	F5	4	..	37504i
40	4202	53.9	-54 33	9.7	9.7	B9	3	1,2	3760ob	90	2230	54.4	+10 28	7.04	7.10	A2	7	2,10	38319i
41	4029	53.9	-57 18	9.4	9.4	Ao	4	..	4009ob	91	2425	54.4	+4 54	8.46	9.64	K5	4	..	19611b
42	1378	53.9	-68 47	8.6	9.4	G5	2	R	40075b	92	3278	54.4	-6 48	9.1	9.2	A2	2	..	13417b
43	1176	53.9	-72 4	9.0	10.0	Ko	2	..	40298b	93	3265	54.4	-13 38	8.6	9.6	Ko	2	..	13409b
44	3057	54.0	-8 38	9.3	9.7	F5	2	..	13417b	94	3074	54.4	-18 56	8.9	8.9	Ao	4	..	4122ob
45	3072	54.0	-19 4	6.96	7.96	Ko	7	..	4122ob	95	3050	54.4	-23 1	9.3	10.0	F8	1	..	40282b
46	3150	54.0	-19 31	9.1	9.2	Fo	4	..	4122ob	96	8570	54.4	-28 38	9.0	10.4	K5	1	..	41399b
47	3048	54.0	-22 20	9.8	10.3	Go	1	..	40282b	97	7398	54.4	-33 50	7.85	8.8	Ko	4	..	41375b
48	8362	54.0	-25 34	11.0	9.8	Fo	3	..	40282b	98	7121	54.4	-34 20	8.1	7.8	B9	6	..	41375b
49	6947	54.0	-37 40	7.55	8.4	Ko	5	..	41327b	99	4266	54.4	-53 56	9.3	9.4	A2	3	..	37662b
50	6971	54.0	-44 59	9.08	8.7	Ao	3	..	9376b	100	4026	54.4	-55 20	10.3	10.3	A	2	..	3760ob

ANNALS OF HARVARD COLLEGE OBSERVATORY.

95200

10^h 54^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	4055	54.4	-56 57	9.0	9.1	F8	4	..	4009ob	51	6074	54.7	-48 22	9.6	10.1	Go	2	..	38416b
2	4035	54.4	-57 27	7.4	7.3	A2	3	..	43205b	52	4271	54.7	-53 31	8.5	9.4	G5	4	..	37662b
3	2902	54.4	-58 29	9.9	10.0	A2	1	..	4009ob	53	4030	54.7	-55 12	8.7	9.7	Ko	4	..	37600b
4	2001	54.4	-61 20	8.3	9.1	B9	5	1,4	21154b	54	2900	54.7	-59 12	9.2	9.2	B9	3	..	21154b
5	1770	54.4	-63 41	9.5	9.5	B8	1	..	38798b	55	2428	54.7	-60 20	8.0	9.2	K2	4	..	21154b
6	1605	54.4	-67 53	9.0	10.0	Ko	1	..	40075b	56	824	54.8	+63 58	6.34	6.34	Ao	10	..	37716i
7	1264	54.4	-70 34	7.6	7.6	B9	6	..	40075b	57	3059	54.8	-8 40	9.1	10.2	K2	1	..	13417b
8	755	54.4	-74 34	6.05	7.7	K2	8	..	40298b	58	3319	54.8	-12 49	9.3	10.1	G5	1	..	46201b
9	1215	54.5	+61 34	8.7	9.3	Go	3	..	37716i	59	3269	54.8	-13 28	9.6	10.1	F8	3	..	46201b
10	1407	54.5	+53 47	9.1	9.7	G	1	..	37717i	60	7803	54.8	-32 32	8.0	8.2	Ko	3	..	41375b
11	2007	54.5	+49 2	8.1	8.6	F8	3	..	38308i	61	6270	54.8	-41 52	9.1	9.3	K2	2	..	9376b
12	1680	54.5	+46 4	5.67	6.74	K2	9	..	38308i	62	6637	54.8	-42 36	8.0	8.9	G5	4	..	9376b
13	2216	54.5	+31 33	9.73	10.73	K	2	..	37572i	63	4072	54.8	-53 0	7.1	7.9	F8	7	..	37662b
14	2540	54.5	+20 18	9.6	10.2	Go	2	..	37504i	64	4273	54.8	-53 45	9.7	9.7	Ao	2	..	37662b
15	2304	54.5	+16 56	7.9	8.9	Ko	3	2,6	37504i	65	4031	54.8	-55 28	10.3	10.3	B9	2	..	37600b
16	2284	54.5	+12 14	6.36	6.78	F5	7	0,8	16941i	66	4062	54.8	-56 43	9.6	9.7	A5	3	..	4009ob
17	3027	54.5	-3 39	8.9	8.9	Ao	5	..	22977b	67	1458	54.8	-69 24	8.0	9.2	K5	2	..	40075b
18	3028	54.5	-3 51	8.5	9.6	K2	2	..	22977b	68	1435	54.9	+54 53	9.26	10.04	G5	1	..	37717i
19	3266	54.5	-13 58	9.3	9.9	Go	3	..	46201b	69	2397	54.9	+38 48	8.4	9.5	K2	1	..	38658i
20	3314	54.5	-20 30	8.1	9.2	K2	6	..	40282b	70	2275	54.9	+15 6	10.7	11.3	G	1	..	4905m
21	7401	54.5	-33 12	5.76	6.5	Fo	..	2,10	56,128	71	3237	54.9	-14 53	8.3	9.3	Ko	5	..	13130b
22	6879	54.5	-35 58	7.7	8.2	A3	5	..	41327b	72	3273	54.9	-17 46	4.20	5.20	Ko	..	R	1804c
23	5724	54.5	-49 44	7.9	9.0	Ko	3	..	9453b	73	3316	54.9	-20 48	8.7	9.8	K5	3	..	40282b
24	5202	54.5	-51 50	10.5	10.2	A3	3	..	37600b	74	6575	54.9	-46 4	7.5	8.6	Ko	3	..	9376b
25	4270	54.5	-53 19	9.7	9.7	Ao	3	..	37662b	75	4217	54.9	-54 21	8.9	8.2	Bo	5	..	37662b
26	4269	54.5	-53 58	8.8	9.1	Ao	3	..	37662b	76	4065	54.9	-56 21	9.0	9.1	A3	5	..	4009ob
27	4208	54.5	-54 24	8.9	9.1	F8	3	..	37662b	77	1076	54.9	-72 33	9.1	10.3	K5	1	..	40298b
28	4040	54.5	-57 19	9.4	9.4	Ao	3	..	4009ob	78	2218	55.0	+31 25	9.2	10.0	G5	2	..	37572i
29	4038	54.5	-57 41	9.5	9.5	Ao	3	..	4009ob	79	2166	55.0	+25 52	9.0	9.3	F	1	..	38208i
30	1771	54.5	-63 56	8.5	9.3	G5	1	..	38798b	80	3264	55.0	-2 56	7.28	7.78	F8	9	..	22977b
31	1607	54.5	-67 38	9.2	9.2	B9	3	..	40075b	81	3320	55.0	-12 32	9.2	9.6	F5	4	..	46201b
32	1177	54.5	-72 4	8.9	10.3	Ma	1	..	40298b	82	3164	55.0	-16 46	8.9	8.9	Ao	5	..	41220b
33	1529	54.6	+52 2	6.52	7.30	G5	7	..	37717i	83	8689	55.0	-31 42	8.2	8.8	Ko	3	..	41375b
34	3174	54.6	-15 48	6.16	7.51	Ma	8	5,9	41220b	84	6962	55.0	-37 56	8.5	8.7	Ao	4	..	41327b
35	8272	54.6	-26 14	8.1	8.3	F5	7	R	41399b	85	6640	55.0	-42 58	7.5	8.1	Ko	5	..	9376b
36		54.6	-26 14			A2	7			86	6622	55.0	-46 56	10.0	8.9	B9	3	..	9453b
37	6266	54.6	-42 7	9.1	8.9	Ao	4	..	9376b	87	5207	55.0	-51 34	10.5	10.2	G5	3	..	37600b
38	6615	54.6	-46 50	8.9	9.6	K2	1	..	9453b	88	5206	55.0	-51 54	10.5	10.8	Ko	1	..	37600b
39	4069	54.6	-53 7	9.9	9.9	B9	4	0,2	37600b	89	..	55.0	-56 35	..	..	Mb	..	..	M
40	4209	54.6	-54 59	9.15	8.8	Ao	4	..	37662b	90	2907	55.0	-58 38	7.2	7.6	Ao	3	2,9	43205b
41	2068	54.7	+43 27	6.12	6.62	F8	9	..	38308i	91	2909	55.0	-58 52	7.2	7.7	Ao	6	..	21154b
42	2296	54.7	+22 34	7.20	8.20	Ko	5	..	37504i	92	2907	55.0	-59 26	8.4	10.0	K5	2	..	21154b
43	2431	54.7	+18 2	9.0	9.5	F8	2	..	37504i	93	1841	55.0	-62 52	8.5	9.5	Ko	1	..	38798b
44	2201	54.7	+15 52	9.7	10.2	F8	2	..	4905m	94	677	55.1	+67 0	7.82	8.82	Ko	3	5,3	37346i
45	2467	54.7	-1 27	8.5	8.8	Fo	3	..	22977b	95	2039	55.1	+44 27	7.72	8.72	Ko	4	..	38308i
46	3281	54.7	-7 2	8.5	9.6	K2	3	..	13417b	96	2069	55.1	+43 15	6.73	7.73	Ko	6	..	38308i
47	3200	54.7	-21 25	9.3	9.7	F8	3	..	40282b	97	3321	55.1	-12 47	8.1	9.1	Ko	3	..	13409b
48	8273	54.7	-26 57	8.4	9.5	Ko	4	..	41399b	98	9448	55.1	-25 0	9.50	11.3	K5	2	..	40282b
49	6267	54.7	-42 0	8.5	8.6	A3	4	..	9376b	99	8277	55.1	-27 8	9.8	10.6	K5	1	..	41399b
50	6618	54.7	-46 15	9.8	9.5	F8	1	..	9376b	100	7131	55.1	-34 36	7.40	7.6	Fo	6	..	41375b

THE HENRY DRAPER CATALOGUE.

95300

10^h 55^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4080	55.1	-52 14	9.2	10.4	K5	3	R	37600b	51	5735	55.4	-49 10	8.0	9.0	K2	2	..	9453b
2	4087	55.1	-52 20	9.6	10.8	K5	2	..	37600b	52	4281	55.4	-53 23	9.5	10.0	F8	2	..	37662b
3	4084	55.1	-52 28	9.1	10.1	Ko	4	..	37600b	53	4222	55.4	-54 30	8.7	8.5	F5	4	..	37662b
4	4218	55.1	-54 56	9.3	9.4	A2	4	..	37662b	54	4037	55.4	-55 19	9.8	10.2	F5	2	..	37600b
5	4048	55.1	-57 9	8.4	8.2	Ao	7	..	40090b	55	4038	55.4	-55 40	7.3	7.3	Ao	4	..	43205b
6	4049	55.1	-57 36	9.5	9.5	A	2	..	40090b	56	4078	55.4	-56 57	9.9	10.0	A2	2	R	40090b
7	2431	55.1	-60 35	8.9	9.4	Ko	4	..	21154b	57	2916	55.4	-59 6	8.7	8.5	B	3	..	21154b
8	1483	55.1	-67 2	9.5	9.5	Ao	1	..	40075b	58	1777	55.4	-63 19	8.5	9.5	Ko	1	..	38798b
9	1395	55.1	-69 0	10.0	10.0	B9	1	..	40075b	59	1079	55.4	-72 11	9.4	9.5	A2	2	..	40298b
10	2400	55.2	+39 45	5.12	5.40	Fo	..	..	56,88	60	576	55.4	-80 1	8.75	10.0	K5	2	..	21530b
11	2298	55.2	+24 15	8.6	9.2	Go	3	E	37504i	61	626	55.5	+68 12	9.4	9.5	A2	3	..	37554i
12	3182	55.2	-5 16	8.60	9.10	F8	6	..	13417b	62	1301	55.5	+60 40	8.9	9.7	G5	2	..	37716i
13	2991	55.2	-11 36	8.5	8.8	Fo	2	..	13409b	63	1968	55.5	+27 40	8.2	8.8	Go	3	E	38208i
14	3271	55.2	-13 33	6.10	7.28	K5	7	..	13409b	64	2300	55.5	+24 37	8.41	9.19	G5	3	E	37504i
15	3154	55.2	-19 30	8.5	9.1	G5	3	..	41220b	65	2299	55.5	+23 51	8.2	9.0	G5	3	..	37504i
16	8375	55.2	-25 12	9.65	10.9	K5	1	..	40282b	66	2202	55.5	+15 59	9.3	10.4	K2	3	..	4905m
17	8279	55.2	-26 45	8.6	9.8	K5	3	..	41399b	67	3185	55.5	-9 23	8.7	9.2	F8	4	..	13417b
18	6075	55.2	-48 54	8.4	8.7	F2	4	..	9453b	68	3206	55.5	-21 40	9.6	9.4	A5	3	..	40282b
19	5210	55.2	-51 58	10.5	10.5	Ko	2	..	37600b	69	6832	55.5	-39 53	8.59	8.9	A3	4	..	41327b
20	4069	55.2	-56 13	8.6	10.0	Ma	1	..	40090b	70	6276	55.5	-41 41	4.56	4.62	A2	..	O, R	28,205
21	4052	55.2	-57 35	8.8	8.6	A3	5	..	40090b	71	6079	55.5	-48 34	9.6	10.1	Ko	1	..	38416b
22	2909	55.2	-59 22	8.7	8.6	B9	7	..	21154b	72	5213	55.5	-51 31	9.6	9.3	A2	8	..	37600b
23	2908	55.2	-59 41	8.2	8.5	F2	6	..	21154b	73	4095	55.5	-52 12	10.4	10.1	F2	4	..	37600b
24	2433	55.2	-60 47	6.31	5.3	B9	8	..	43205b	74	4094	55.5	-52 14	9.3	10.5	K5	1	..	37600b
25	1574	55.2	-64 15	8.9	9.0	A3	3	..	38798b	75	4093	55.5	-52 47	10.2	10.2	B9	4	..	37600b
26	757	55.2	-75 4	9.09	9.0	F5	3	..	40298b	76	4282	55.5	-53 9	7.6	7.7	A2	6	..	37662b
27	597	55.3	+69 45	8.49	8.99	F8	3	..	37554i	77	2911	55.5	-59 8	8.7	9.1	Ao	3	..	21154b
28	1408	55.3	+54 26	9.1	9.6	F8	1	..	37717i	78	758	55.5	-74 13	8.5	9.6	K2	1	..	40298b
29	1908	55.3	+48 24	7.9	9.0	K2	2	..	38308i	79	1839	55.6	+47 5	7.01	8.01	Ko	8	..	38308i
30	1909	55.3	+48 14	7.80	8.87	K2	4	..	38308i	80	1683	55.6	+46 12	9.0	9.8	G5	1	..	38308i
31	1965	55.3	+26 52	9.3	9.9	Go	1	..	38208i	81	2288	55.6	+12 32	7.9	8.0	A3	5	..	38319i
32	2993	55.3	-11 14	8.1	9.1	Ko	2	..	13409b	82	2384	55.6	+6 38	5.08	5.22	A5	..	R	56,88
33	8378	55.3	-25 29	10.3	9.8	F8	3	..	40282b	83	3279	55.6	-17 46	9.2	9.5	F2	1	..	41220b
34	8692	55.3	-31 47	8.6	9.4	G5	1	..	41375b	84	3281	55.6	-17 47	var.	var.	Mc	2	R	41220b
35	6967	55.3	-37 23	8.5	9.6	Ko	2	..	41327b	85	3054	55.6	-22 53	8.3	8.3	A2	7	..	40282b
36	6427	55.3	-40 52	9.4	9.2	F5	2	..	41327b	86	7812	55.6	-27 10	9.3	10.6	K5	1	..	41399b
37	6989	55.3	-44 14	9.0	9.5	Ko	1	..	9376b	87	6647	55.6	-42 51	7.9	8.0	Fo	3	..	43044b
38	4033	55.3	-56 5	8.9	9.4	Ko	5	..	40090b	88	5577	55.6	-50 27	10.0	9.4	B9	5	I, 4	37600b
39	1078	55.3	-72 52	8.3	8.6	Fo	6	..	40298b	89	5575	55.6	-51 8	10.0	9.4	Ao	7	..	37600b
40	1294	55.4	+58 30	9.0	9.4	F5	2	..	37717i	90	4097	55.6	-52 31	10.0	10.1	A3	3	R	37600b
41	1682	55.4	+45 51	8.8	9.8	Ko	1	..	38308i	91	4040	55.6	-55 39	9.7	9.7	Ao	3	..	37600b
42	2110	55.4	+29 46	8.16	8.44	Fo	5	..	37572i	92	4060	55.6	-57 9	9.7	9.7	Ao	2	..	40090b
43	2383	55.4	+6 4	8.7	9.9	K5	3	..	19611b	93	2011	55.6	-61 57	7.40	8.8	Ko	7	..	38834b
44	2408	55.4	+4 17	7.9	7.9	Ao	6	R	13388b	94	1580	55.6	-66 7	9.3	9.3	Ao	2	..	40075b
45	2407	55.4	+4 9	5.05	6.05	Ko	9	..	13388b	95	1615	55.6	-67 39	9.1	9.5	F5	2	..	40075b
46	3062	55.4	-8 57	7.48	7.54	A2	7	..	13409b	96	557	55.7	+70 56	8.0	8.1	A2	4	..	37554i
47	6692	55.4	-43 16	5.94	6.4	B9	..	0, 8	56,128	97	1455	55.7	+53 16	7.22	8.22	Ko	6	..	37717i
48	6586	55.4	-45 27	9.6	9.2	Ao	2	..	9376b	98	2329	55.7	+14 13	10.7	11.7	Ko	1	..	4905m
49	6585	55.4	-45 43	9.1	8.9	Ko	2	..	9376b	99	2446	55.7	+8 10	9.3	10.4	K2	2	..	19611b
50	6384	55.4	-48 7	9.2	10.0	Go	2	..	38416b	100	2385	55.7	+6 32	9.3	10.4	K2	3	..	19611b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

95400

10^h 55^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3063	55.7	- 8 43	9.1	9.5	F5	2	..	13417b	51	2433	56.0	+18 15	9.0	9.8	G5	1	..	37504i
2	2994	55.7	-12 6	7.7	8.0	F2	3	..	13409b	52	2388	56.0	+ 6 14	8.7	9.1	F5	8	..	19611b
3	3079	55.7	-18 48	7.04	7.82	G5	7	..	41220b	53	2725	56.0	+ 0 36	7.9	8.0	A2	9	..	22977b
4	3056	55.7	-22 16	10.0	10.9	K5	1	..	40282b	54	3275	56.0	-13 26	10.0	10.4	F5	2	..	46201b
5	8383	55.7	-25 19	9.0	9.8	Kp	3	R	40450b	55	3274	56.0	-13 55	9.6	10.4	G5	3	..	46201b
6	7815	55.7	-32 14	8.2	9.7	Ko	1	..	41375b	56	8696	56.0	-31 18	6.18	7.4	Go	8	..	41375b
7	6650	55.7	-42 43	7.8	8.0	F5	2	..	43044b	57	4230	56.0	-54 36	10.3	10.3	B9	1	..	37662b
8	7000	55.7	-44 22	7.4	8.0	K5	4	..	9376b	58	4047	56.0	-56 7	9.1	9.1	B9	7	..	37600b
9	6589	55.7	-46 4	7.8	7.8	Ao	7	..	9376b	59	4094	56.0	-57 1	7.4	8.2	Ma	1	..	43205b
10	5741	55.7	-49 57	8.5	8.7	F5	3	..	38416b	60	2923	56.0	-58 21	8.3	8.2	Ao	5	..	21154b
11	4041	55.7	-55 33	9.6	10.2	Go	2	..	37600b	61	2922	56.0	-58 50	7.9	9.1	Bo	3	..	21154b
12	4062	55.7	-57 38	8.4	8.5	A2	5	..	40090b	62	2920	56.0	-59 26	9.1	9.2	Fo	4	..	21154b
13	2918	55.7	-59 2	8.4	8.5	Ao	6	..	21154b	63	411	56.1	+75 59	7.22	8.22	Ko	4	..	37465i
14	2914	55.7	-59 52	9.0	8.8	Ao	3	..	21154b	64	2178	56.1	+42 25	8.1	8.4	Fo	5	..	38308i
15	1845	55.7	-62 58	8.7	8.7	B8	4	..	38834b	65	2153	56.1	+41 19	8.7	9.1	F5	4	E	38308i
16	104	55.7	-88 29	8.6	9.4	G5	3	..	22578b	66	2205	56.1	+38 33	8.0	9.0	Ko	4	..	38658i
17	452	55.8	+74 11	8.3	8.8	F8	7	..	37742i	67	2293	56.1	+23 4	9.2	10.4	K5	1	..	37504i
18	1302	55.8	+56 55	2.44	2.44	Ao	..	R	2266c	68	2996	56.1	- 5 9	8.80	8.88	A3	6	..	13417b
19	2096	55.8	+30 10	9.7	10.7	K	1	..	37572i	69	8790	56.1	-29 21	9.2	9.5	Ko	1	..	41399b
20	2203	55.8	+16 31	9.7	10.8	K2	1	..	4905m	70	7143	56.1	-34 18	9.1	9.6	Ko	1	..	41375b
21	2387	55.8	+ 5 53	8.5	9.7	K5	3	..	19611b	71	6087	56.1	-48 28	9.0	9.0	Ao	4	..	9453b
22	2995	55.8	-11 32	8.1	8.4	Fo	4	..	13409b	72	6086	56.1	-48 48	8.5	8.7	F2	4	..	9453b
23	2996	55.8	-12 0	7.50	7.50	Ao	7	..	13409b	73	5748	56.1	-49 50	8.8	9.0	F5	3	..	38416b
24	3282	55.8	-17 49	8.82	9.38	Go	3	..	41220b	74	4103	56.1	-52 13	9.8	10.1	F2	3	..	37600b
25	3157	55.8	-19 46	8.7	9.7	Ko	2	..	41220b	75	4284	56.1	-54 2	8.3	9.1	Ko	5	..	37662b
26	6839	55.8	-39 43	7.7	8.0	Go	6	..	41327b	76	4233	56.1	-54 28	10.0	10.0	Ao	2	..	37662b
27	6392	55.8	-47 56	9.8	10.3	G5	2	..	38416b	77	4231	56.1	-54 41	10.2	10.2	B9	2	..	37662b
28	5219	55.8	-51 9	10.5	9.9	A2	5	..	37600b	78	4046	56.1	-55 18	8.6	9.7	K2	1	..	37662b
29	5220	55.8	-51 17	6.34	7.1	A3	..	0,8	56,128	79	4095	56.1	-56 10	8.7	7.9	A2	2	..	43205b
30	5218	55.8	-51 42	10.5	9.6	Ao	6	..	37600b	80	4076	56.1	-57 52	8.8	8.8	Ao	2	..	40090b
31	4100	55.8	-52 45	9.7	10.5	G5	1	..	37600b	81	2017	56.1	-61 35	9.0	9.7	Ao	2	2,2	38798b
32	4226	55.8	-55 5	9.4	9.4	Ao	3	..	37662b	82	1184	56.1	-71 48	8.9	9.7	G5	1	..	40298b
33	4042	55.8	-55 28	10.0	10.0	B9	3	..	37600b	83	598	56.2	+69 44	9.54	10.10	Go	2	..	37554i
34	4090	55.8	-57 3	10.1	10.2	A3	2	..	40090b	84	1883	56.2	+44 54	8.80	9.58	G5	3	..	38308i
35	..	55.8	-57 17	..	..	Oa	..	..	76,29	85	2145	56.2	+37 13	7.31	7.59	Fo	6	0,7	38658i
36	2270	55.9	+21 38	9.0	9.4	F5	3	..	37504i	86	2276	56.2	+15 34	7.9	8.9	Ko	4	5,9	37504i
37	2330	55.9	+14 35	9.3	10.3	Ko	2	..	4905m	87	3276	56.2	-14 2	10.2	10.8	G	2	R	46201b
38	2289	55.9	+12 36	7.7	8.7	Ko	4	..	38319i	88	3321	56.2	-20 56	9.3	9.7	F8	3	..	40282b
39	3176	55.9	-10 55	9.1	9.6	F8	1	..	13409b	89	7145	56.2	-34 25	8.8	9.3	Ko	2	..	41375b
40	3239	55.9	-14 49	9.6	10.7	K2	1	..	46201b	90	7144	56.2	-35 1	8.44	8.7	F8	4	..	41375b
41	3178	55.9	-15 15	6.54	7.54	Ko	8	..	13130b	91	5585	56.2	-51 6	9.4	9.1	A5	6	..	37600b
42	8385	55.9	-25 11	8.05	8.2	Ao	7	..	40282b	92	5225	56.2	-51 25	7.8	7.7	Ao	5	..	37662b
43	8287	55.9	-26 56	8.8	9.8	F2	2	..	41399b	93	4106	56.2	-52 39	10.1	10.1	Ao	4	..	37600b
44	6698	55.9	-43 38	8.6	9.3	Ko	1	..	9376b	94	4048	56.2	-56 1	8.9	9.7	G5	4	..	37600b
45	6083	55.9	-49 6	9.0	8.7	Ao	4	..	9453b	95	2926	56.2	-58 27	8.0	7.6	Ao	7	0,2	21154b
46	5581	55.9	-50 57	11.5	10.8	Ao	2	..	37600b	96	2923	56.2	-59 48	9.1	9.2	A3	2	..	21154b
47	4227	55.9	-55 8	8.85	8.8	Fo	4	..	37662b	97	2018	56.2	-61 18	9.7	9.5	B	2	..	38798b
48	4070	55.9	-57 49	9.1	9.1	Ao	3	..	40090b	98	514	56.3	+73 38	8.7	8.8	A2	3	..	37742i
49	2193	56.0	+33 54	10.2	10.8	Go	2	..	37572i	99	1345	56.3	+59 13	6.84	7.91	K2	5	..	37717i
50	2098	56.0	+31 48	8.38	9.16	G5	4	..	37572i	100	3158	56.3	- 7 42	9.3	9.7	F5	2	..	13417b

THE HENRY DRAPER CATALOGUE.

95500

10^h 56^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3066	m. 56.3	° - 9 14	7.72	9.07	Ma	2	..	13409b	51	2299	m. 56.6	° + 22 33	9.6	10.0	F5	2	..	37504i
2	3001	56.3	- 11 31	8.1	8.9	G5	5	..	13409b	52	2546	56.6	+ 20 4	8.2	8.6	F5	5	..	37504i
3	3322	56.3	- 20 38	9.6	10.1	K2	1	..	40282b	53	3036	56.6	- 3 16	9.3	9.9	Go	2	..	22977b
4	8791	56.3	- 29 26	9.3	9.7	Ao	1	..	41399b	54	3289	56.6	- 6 26	9.2	10.3	K2	2	..	13417b
5	6843	56.3	- 39 50	10.1	9.5	A	1	..	41327b	55	3059	56.6	- 22 53	8.6	9.1	A2	6	..	40282b
6	6845	56.3	- 39 58	6.72	7.6	F8	5	2,8	43044b	56	7833	56.6	- 33 0	8.8	10.0	K2	1	..	41410b
7	6601	56.3	- 45 17	8.78	9.0	G5	2	..	9376b	57	4113	56.6	- 52 38	9.4	10.4	Ko	3	..	37600b
8	5749	56.3	- 49 54	9.4	9.3	Ao	2	..	38416b	58	1467	56.6	- 69 16	8.0	8.0	B9	6	..	40075b
9	4109	56.3	- 52 34	6.61	7.9	Ko	6	..	37662b	59	2297	56.7	+ 23 8	8.8	9.6	G5	2	..	37504i
10	4111	56.3	- 53 2	8.6	8.4	Fo	3	..	37662b	60	2340	56.7	+ 13 12	9.3	9.8	F8	4	..	4905m
11	4235	56.3	- 54 19	10.2	10.3	A2	2	..	37662b	61	3267	56.7	- 2 24	9.2	10.0	G5	2	..	22977b
12	4079	56.3	- 57 10	9.0	9.1	A3	4	..	40090b	62	3174	56.7	- 16 48	8.04	8.10	A2	6	..	41220b
13	627	56.4	+ 67 56	9.4	10.0	G	2	..	37554i	63	8705	56.7	- 31 32	10.3	9.4	Ao	2	..	41375b
14	1685	56.4	+ 46 10	8.8	9.9	K2	1	..	38308i	64	8704	56.7	- 31 52	9.2	9.4	Ao	1	..	41375b
15	2097	56.4	+ 30 26	7.26	8.26	Ko	8	..	37572i	65	6406	56.7	- 47 29	10.5	10.3	A2	1	..	38416b
16	2271	56.4	+ 21 23	8.2	9.0	G5	4	..	37504i	66	4106	56.7	- 57 7	9.6	9.7	A2	2	..	40090b
17	2406	56.4	+ 19 35	9.7	10.3	G	1	..	37504i	67	2931	56.7	- 58 38	8.7	9.4	A2	2	..	40090b
18	2436	56.4	+ 17 53	7.9	8.4	F8	4	..	37504i	68	2021	56.7	- 62 5	8.8	9.1	B8	2	..	38798b
19	3002	56.4	- 12 12	8.1	9.3	K5	2	..	13409b	69	1586	56.7	- 65 13	8.58	8.4	B9	4	..	38834b
20	6403	56.4	- 48 0	9.6	10.7	K2	1	..	38416b	70	1187	56.7	- 71 40	9.7	9.7	Ao	1	..	40298b
21	6090	56.4	- 48 29	8.0	8.1	G5	6	..	9453b	71	172	56.7	- 87 48	9.0	10.0	Ko	3	5,1	22578b
22	5587	56.4	- 51 1	11.5	10.8	Ao	2	..	37600b	72	645	56.8	+ 70 35	6.64	7.64	Ko	6	..	37554i
23	4285	56.4	- 53 38	10.3	10.3	B9	1	..	37662b	73	1304	56.8	+ 60 42	8.8	9.4	Go	2	..	37716i
24	4237	56.4	- 55 7	10.3	10.3	B9	2	..	37600b	74	2222	56.8	+ 31 22	9.2	9.8	Go	3	..	37572i
25	4052	56.4	- 55 59	9.4	10.6	K5	1	..	37600b	75	2099	56.8	+ 30 20	9.2	9.7	F8	3	..	37572i
26	2043	56.5	+ 44 16	8.5	9.5	Ko	3	..	38308i	76	1961	56.8	+ 28 24	8.6	9.8	K5	1	..	38208i
27	2220	56.5	+ 31 24	9.2	9.8	Go	3	..	37572i	77	2277	56.8	+ 15 11	8.9	9.5	Go	6	5,1	4905m
28	2399	56.5	+ 7 24	10.0	11.0	Ko	2	..	19611b	78	2471	56.8	- 1 57	4.97	6.32	Ma	..	0, R	56,88
29	2431	56.5	+ 5 39	8.9	9.7	G5	2	..	19611b	79	3162	56.8	- 19 22	9.6	9.7	F8	2	..	41220b
30	3279	56.5	- 13 40	9.8	10.4	Go	3	..	46201b	80	3163	56.8	- 19 30	8.1	8.9	G5	5	..	41220b
31	3171	56.5	- 16 22	8.9	9.5	Go	5	..	41220b	81	9474	56.8	- 24 30	9.6	10.6	F5	2	..	40282b
32	3172	56.5	- 16 24	7.9	8.5	Go	7	..	41220b	82	5233	56.8	- 51 40	8.2	9.0	G5	3	..	37662b
33	3161	56.5	- 19 16	9.2	9.7	Ko	2	..	41220b	83	4117	56.8	- 53 1	8.5	9.4	G5	2	..	37662b
34	5230	56.5	- 51 32	7.02	7.5	Ao	..	0,7	56,128	84	4289	56.8	- 53 25	10.6	10.6	B9	2	..	37600b
35	4239	56.5	- 54 20	9.6	9.7	A3	1	..	37662b	85	4241	56.8	- 54 32	9.4	10.0	Go	1	..	37662b
36	4238	56.5	- 54 49	8.3	8.3	B8	6	R	37662b	86	4090	56.8	- 57 49	10.0	10.0	Ao	1	..	40090b
37	4055	56.5	- 55 38	9.2	9.7	F8	3	..	37662b	87	2932	56.8	- 59 28	9.0	8.5	B8	6	..	21154b
38	4103	56.5	- 56 11	9.7	9.7	B8	3	..	37600b	88	2931	56.8	- 59 47	8.1	8.8	Ao	5	..	21154b
39	4084	56.5	- 57 41	9.6	9.7	A2	1	..	40090b	89	2022	56.8	- 61 52	9.0	9.4	B	1	R	38798b
40	2927	56.5	- 59 46	8.2	8.3	B8	7	..	21154b	90	1587	56.8	- 65 30	8.0	9.2	K5	4	..	38834b
41	..	56.5	- 64 42	Neb.	Neb.	Pd	..	R	76,22	91	2300	56.9	+ 22 32	9.2	9.5	Fo	3	..	37504i
42	1584	56.5	- 66 1	8.4	9.0	Go	5	..	38834b	92	2438	56.9	+ 18 10	8.3	9.3	Ko	1	..	37504i
43	1402	56.5	- 68 18	7.9	7.9	B9	7	..	40075b	93	2331	56.9	+ 14 16	9.5	10.3	G5	2	..	4905m
44	359	56.6	+ 81 35	8.3	8.9	Go	3	..	37465i	94	2332	56.9	+ 14 9	9.3	10.1	G5	3	..	4905m
45	434	56.6	+ 74 56	8.49	8.55	A2	2	E	37465i	95	3212	56.9	- 21 18	8.1	8.8	F2	5	..	40282b
46	644	56.6	+ 69 47	9.04	10.04	Ko	2	..	37554i	96	6096	56.9	- 48 48	9.8	10.2	Ma	1	..	38416b
47	1436	56.6	+ 55 34	7.40	7.82	F5	5	..	37717i	97	5235	56.9	- 51 20	10.2	10.1	A2	4	..	37600b
48	1457	56.6	+ 53 45	8.1	9.1	Ko	2	..	37717i	98	4118	56.9	- 52 10	9.7	10.5	G5	2	..	37600b
49	2044	56.6	+ 44 2	8.5	9.3	G5	3	..	38308i	99	4092	56.9	- 57 24	9.4	9.4	B9	4	..	40090b
50	2146	56.6	+ 37 32	8.2	9.0	G5	3	..	38658i	100	2452	56.9	- 60 30	9.1	10.0	K2	1	..	21154b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

95600

10^h 56^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1188	56.9	-71 24	8.7	9.5	G5	2	..	40298b	51	2441	57.3	+ 9 43	7.08	7.08	Ao	7	..	38319i
2	504	56.9	-80 18	8.41	7.9	B8	6	..	21530b	52	3246	57.3	-14 59	8.9	10.1	K5	1	..	13130b
3	159	57.0	+86 5	8.5	8.6	A3	6	1,4	37793i	53	3181	57.3	-15 23	9.10	9.66	Go	3	5,1	46201b
4	599	57.0	+69 15	9.7	10.9	K5	2	..	37554i	54	6712	57.3	-43 11	9.6	9.2	Ao	3	..	9376b
5	628	57.0	+68 7	9.7	9.7	Ao	3	..	37554i	55	5603	57.3	-50 38	10.5	9.9	A2	2	..	38416b
6	2223	57.0	+30 58	8.7	9.1	F5	3	..	37572i	56	5239	57.3	-51 17	11.5	10.4	A2	2	..	37600b
7	2305	57.0	+24 13	8.3	8.4	A5	5	E	37504i	57	4066	57.3	-56 2	9.1	9.1	B9	6	..	37662b
8	2547	57.0	+20 43	4.42	4.42	Ao	..	O, R	6075c	58	2146	57.4	+36 14	8.8	8.8	Ao	4	..	37572i
9	3283	57.0	-13 56	9.3	9.6	F2	1	..	13409b	59	2067	57.4	+33 26	10.0	10.6	G	2	..	37572i
10	7435	57.0	-33 22	8.1	8.5	Go	6	..	41375b	60	2225	57.4	+30 58	8.2	8.5	F2	5	..	37572i
11	6988	57.0	-37 10	8.5	9.3	F5	3	..	41327b	61	2407	57.4	+19 5	10.0	10.6	G	1	..	37504i
12	4246	57.0	-55 3	9.5	9.5	B8	2	..	37662b	62	2726	57.4	+ 0 28	8.5	8.9	F5	8	..	22977b
13	4063	57.0	-55 47	9.1	9.9	G5	3	O, 2	37600b	63	3326	57.4	-12 54	10.0	10.1	A2	2	..	46201b
14	4099	57.0	-57 34	8.8	8.8	B9	6	..	40090b	64	3183	57.4	-16 13	8.9	9.3	F5	5	..	41220b
15	2937	57.0	-58 37	9.3	9.1	B3	4	..	40090b	65	3062	57.4	-22 52	9.3	9.7	F8	2	..	40450b
16	2936	57.0	-59 42	8.9	8.9	B8	3	..	21154b	66	9479	57.4	-24 11	9.2	9.8	Go	4	..	40450b
17	1083	57.0	-72 30	9.5	9.5	Ao	3	..	40298b	67	6993	57.4	-37 18	7.84	9.1	K5	3	..	41327b
18	2151	57.1	+36 54	7.9	8.7	G5	4	E	37572i	68	6610	57.4	-45 54	10.5	10.0	Fo	2	..	38416b
19	2439	57.1	+18 36	9.3	10.3	Ko	2	..	37504i	69	6664	57.4	-46 31	9.6	10.0	Ko	2	..	9376b
20	2308	57.1	+17 26	7.9	8.7	G5	3	..	37504i	70	5241	57.4	-51 53	10.9	10.5	Ao	2	..	37600b
21	2341	57.1	+12 56	9.5	10.1	Go	3	..	4905m	71	4251	57.4	-54 52	9.7	10.3	Go	1	..	37662b
22	2439	57.1	+ 9 25	8.5	9.3	G5	3	..	19611b	72	4117	57.4	-56 44	8.4	8.5	Ao	7	..	40090b
23	2378	57.1	+ 2 45	8.1	8.2	A3	5	..	13388b	73	1088	57.4	-72 27	8.9	8.9	Ao	5	..	40298b
24	3193	57.1	- 9 18	7.9	8.9	Ko	3	..	13409b	74	828	57.5	+63 48	8.8	9.9	K2	1	..	37346i
25	3004	57.1	-11 18	8.6	9.1	F8	2	..	13409b	75	2012	57.5	+49 22	8.27	8.41	A5	4	O, 4	38648i
26	3245	57.1	-15 8	7.91	8.19	Fo	7	..	13130b	76	2408	57.5	+18 53	9.3	10.1	G5	1	..	37504i
27	3179	57.1	-15 56	9.3	10.1	G5	2	..	13130b	77	2205	57.5	+16 38	9.5	10.7	K5	2	..	4905m
28	3324	57.1	-20 57	9.1	9.7	G5	3	..	40282b	78	3195	57.5	- 9 27	7.52	8.70	K5	3	..	13409b
29	8800	57.1	-29 20	8.6	9.7	F8	1	..	41399b	79	3175	57.5	-16 57	9.13	9.91	G5	1	..	41220b
30	6707	57.1	-44 5	7.9	8.6	F5	4	..	9376b	80	3326	57.5	-20 52	7.42	8.5	Ko	7	O, 7	40282b
31	4123	57.1	-53 8	10.5	10.5	Ao	2	..	37600b	81	8803	57.5	-29 23	9.8	9.7	Ao	1	..	41399b
32	4290	57.1	-54 3	8.7	9.1	F5	6	..	37662b	82	6861	57.5	-40 5	9.69	9.5	A3	2	..	41327b
33	4111	57.1	-56 14	8.3	8.5	Ao	2	..	43205b	83	6672	57.5	-42 30	9.2	8.9	Fo	4	..	9376b
34	2942	57.1	-59 28	8.8	9.2	Ko	4	..	21154b	84	5242	57.5	-51 41	10.5	10.5	Ao	3	..	37600b
35	2455	57.1	-60 41	8.2	8.0	B3	6	..	38834b	85	4118	57.5	-56 51	9.9	10.0	A2	2	..	40090b
36	1589	57.1	-65 19	8.6	8.9	F2	3	..	38834b	86	4119	57.5	-57 6	9.2	10.3	K2	1	..	40090b
37	1403	57.1	-68 39	8.9	9.2	Fo	2	..	40075b	87	2459	57.5	-60 31	7.4	7.9	Ma	5	..	21154b
38	1160	57.2	+62 12	7.12	7.62	F8	8	..	37716i	88	379	57.5	-83 56	8.8	8.8	Ao	4	..	13459b
39	1458	57.2	+52 50	8.1	8.4	Fo	3	..	37717i	89	1161	57.6	+62 17	1.95	2.95	Ko	..	R	5527c
40	2440	57.2	+ 9 9	8.5	9.0	F8	4	..	19611b	90	1439	57.6	+55 4	8.7	9.3	Go	2	..	37717i
41	3217	57.2	-21 20	8.7	8.9	Fo	5	..	40282b	91	2155	57.6	+41 4	8.6	9.6	Ko	3	E	38308i
42	3215	57.2	-21 36	8.3	8.8	Ao	6	..	40282b	92	2301	57.6	+23 41	9.6	10.2	G	2	R	37504i
43	6858	57.2	-39 57	9.5	9.5	A2	2	..	41327b	93	2344	57.6	+13 27	10.7	11.3	Go	1	..	4905m
44	4065	57.2	-55 37	10.0	10.0	B9	2	..	37662b	94	2396	57.6	- 1 1	9.3	9.8	F8	1	..	22977b
45	2456	57.2	-60 43	9.1	8.8	A	2	..	38834b	95	3270	57.6	- 2 58	7.13	7.91	G5	8	..	22977b
46	1086	57.2	-72 21	9.4	9.5	A2	1	..	40298b	96	3247	57.6	-14 19	9.2	10.4	K5	3	..	46201b
47	506	57.2	-80 15	8.88	9.1	K	3	..	21530b	97	3064	57.6	-22 33	9.1	9.4	K2	3	..	40450b
48	1296	57.3	+57 58	8.8	10.0	K5	2	..	37716i	98	8302	57.6	-26 17	6.16	7.0	Fo	9	..	41399b
49	2066	57.3	+33 11	10.9	11.5	G	2	R	37572i	99	6291	57.6	-41 58	8.3	8.0	Fo	6	O, 4	9376b
50	2302	57.3	+22 30	10.0	11.0	K	1	..	37504i	100	6613	57.6	-45 52	9.8	10.1	K2	1	..	38416b

THE HENRY DRAPER CATALOGUE.

95700

10^h 57^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	PL No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	PL No.
1	5770	m. 57.6	° -49 55	10.5	9.6	A2	1	..	38416b	51	4116	m. 57.9	° -57 49	9.9	10.0	A2	2	..	40090b
2	4130	57.6	-53 5	9.8	10.8	Ko	1	..	37600b	52	1794	57.9	-63 46	6.96	7.4	Fo	8	..	38834b
3	4295	57.6	-53 18	10.3	10.3	Ao	1	..	37662b	53	558	58.0	+70 56	8.8	9.2	F5	3	..	37554i
4	4255	57.6	-54 13	9.3	10.3	Ko	1	..	37662b	54	..	58.0	+44 53	..	..	G5	1	..	38308i
5	4109	57.6	-57 39	8.8	8.8	B9	5	..	40090b	55	2100	58.0	+30 29	9.2	10.6	Ma	2	..	37572i
6	2952	57.6	-59 47	8.5	8.5	A2	7	..	21154b	56	2279	58.0	+15 1	10.7	11.7	Ko	2	..	4905m
7	2460	57.6	-61 1	7.4	7.6	Bip	6	R	38834b	57	3163	58.0	-7 50	8.3	8.7	F5	7	..	13417b
8	1501	57.6	-67 5	8.2	9.2	Ko	5	..	40075b	58	9693	58.0	-23 27	8.0	9.1	K2	4	..	40450b
9	478	57.6	-82 3	7.53	7.5	B9	7	..	13465b	59	6896	58.0	-38 41	8.8	9.3	A5	3	..	41327b
10	305	57.6	-84 22	9.7	9.8	A5	2	..	13459b	60	6867	58.0	-39 34	8.5	8.7	F5	3	..	41327b
11	629	57.7	+68 33	10.4	11.2	G5	2	..	37554i	61	6464	58.0	-40 22	8.6	8.9	G5	3	..	41327b
12	2334	57.7	+14 29	10.7	11.5	G5	1	..	4905m	62	6119	58.0	-48 20	10.0	10.4	Go	2	..	38416b
13	3189	57.7	-5 51	7.7	8.8	K2	7	..	13417b	63	4079	58.0	-55 48	9.1	9.7	Ao	6	..	37600b
14	9690	57.7	-23 44	9.8	10.5	Ko	2	..	40450b	64	4077	58.0	-55 52	8.6	8.8	A2	2	..	43205b
15	6894	57.7	-38 40	9.2	9.2	Ao	4	..	41327b	65	2949	58.0	-58 15	8.9	8.9	Ao	4	..	40090b
16	6461	57.7	-40 34	6.63	7.6	Mb	3	0.7	43044b	66	2466	58.0	-60 55	8.6	9.4	G5	2	..	38834b
17	6674	57.7	-42 16	8.0	9.0	K5	2	..	9376b	67	2037	58.0	-61 37	8.5	9.1	F8	3	0.2	21154b
18	6110	57.7	-48 16	8.2	7.7	Ao	8	..	9453b	68	1887	58.1	+44 52	7.32	8.10	G5	6	..	38308i
19	5771	57.7	-49 27	9.8	10.2	Ko	1	..	38416b	69	2410	58.1	+19 1	10.0	10.4	F5	1	..	37504i
20	4296	57.7	-53 31	9.0	9.4	F5	4	..	37662b	70	2345	58.1	+13 42	8.7	8.7	Ao	6	2.3	4905m
21	419	57.8	+77 0	8.6	9.1	F8	5	..	37465i	71	2728	58.1	-0 13	6.13	6.21	A3	10	..	22977b
22	453	57.8	+74 0	9.1	9.6	F8	2	..	37742i	72	2474	58.1	-1 21	9.5	10.0	F8	1	..	22977b
23	939	57.8	+62 50	9.0	9.1	A3	3	..	37346i	73	8615	58.1	-28 12	7.7	10.6	K2	2	..	41399b
24	2228	57.8	+31 9	8.7	9.5	G5	3	..	37572i	74	6301	58.1	-41 39	8.8	8.9	Go	2	..	9376b
25	2116	57.8	+29 29	7.29	8.29	Ko	7	..	37572i	75	6674	58.1	-46 45	10.5	9.8	A5	2	..	38416b
26	3328	57.8	-12 58	10.0	10.5	F8	1	..	46201b	76	6430	58.1	-47 44	9.2	9.5	Ao	3	..	9453b
27	3066	57.8	-23 4	8.9	8.6	F8	5	..	40450b	77	6431	58.1	-47 55	9.8	10.0	G5	1	..	9453b
28	8405	57.8	-25 21	8.25	9.3	K2	5	..	40450b	78	5776	58.1	-49 33	9.6	10.4	K2	1	..	38416b
29	6720	57.8	-43 20	8.5	9.0	Ko	2	..	9376b	79	5619	58.1	-51 4	8.2	8.4	A2	5	..	38416b
30	4135	57.8	-53 3	10.5	10.5	Ao	2	..	37600b	80	5251	58.1	-51 53	11.5	10.8	Ao	2	..	37600b
31	2945	57.8	-58 50	8.9	8.8	Bo	3	..	40090b	81	4298	58.1	-53 31	9.8	10.3	F8	2	..	37600b
32	2031	57.8	-61 14	9.4	9.4	Ao	2	..	38834b	82	4258	58.1	-54 19	9.3	10.3	Ko	2	..	37600b
33	2032	57.8	-61 21	9.1	9.1	B	2	..	38798b	83	4257	58.1	-54 30	10.1	10.2	A2	2	..	37662b
34	213	57.8	-86 45	9.9	10.5	G	2	..	22238b	84	4119	58.1	-57 21	8.3	8.2	B9	7	..	40090b
35	2147	57.9	+36 38	7.60	8.95	Mb	3	R	38658i	85	1604	58.1	-65 2	9.33	8.9	B9	3	..	38834b
36	2308	57.9	+23 55	8.9	9.5	Go	2	..	37504i	86	1593	58.1	-65 28	7.7	7.7	B9	7	..	38834b
37	2303	57.9	+22 15	10.2	10.8	G	2	..	37504i	87	1628	58.1	-67 10	9.3	9.3	B9	2	..	40075b
38	2278	57.9	+14 58	10.7	11.7	Ko	1	..	4905m	88	509	58.1	-81 1	6.67	7.4	F5	8	..	13466b
39	2397	57.9	-1 3	9.3	9.6	Fo	5	..	22977b	89	2072	58.2	+32 51	8.8	10.0	K5	3	..	37572i
40	2473	57.9	-2 5	7.32	8.10	G5	7	..	22977b	90	3278	58.2	-2 30	8.7	9.9	K5	1	..	22977b
41	3272	57.9	-2 50	9.3	10.1	G5	3	R	22977b	91	3331	58.2	-12 49	10.0	10.6	Go	1	..	46201b
42	3001	57.9	-4 25	8.8	10.0	K5	1	E	19138b	92	3248	58.2	-14 23	9.8	10.6	G5	2	..	46201b
43	3068	57.9	-8 47	8.8	9.9	K2	2	..	13417b	93	9487	58.2	-25 2	6.80	7.8	A2	10	..	40450b
44	3185	57.9	-15 21	10.0	10.6	Go	2	..	46201b	94	8410	58.2	-25 53	9.6	10.7	K5	2	..	40450b
45	9484	57.9	-24 16	9.8	10.7	Go	1	..	40450b	95	6727	58.2	-43 11	8.9	8.9	F5	3	..	9376b
46	8614	57.9	-28 56	8.8	9.5	Ao	3	..	41399b	96	5777	58.2	-49 48	9.6	9.6	Go	1	..	38416b
47	6996	57.9	-37 39	9.1	9.9	F8	2	..	41327b	97	5256	58.2	-51 21	11.5	10.8	Ao	2	..	37600b
48	4075	57.9	-55 22	8.4	9.9	Mb	3	..	37762b	98	5254	58.2	-51 55	10.9	10.5	Ko	1	..	37600b
49	4127	57.9	-57 3	9.1	9.4	Fo	4	..	40090b	99	2953	58.2	-58 13	8.3	8.8	G5	5	..	40090b
50	4117	57.9	-57 37	10.0	10.0	Ao	2	..	40090b	100	2951	58.2	-58 56	9.7	9.7	B9	2	..	40090b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

95800

10^h 58^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1594	58.2	-66 4	8.6	8.6	Ao	3	..	38834b	51	3186	58.5	-15 38	10.0	10.6	Go	2	..	46201b
2	1306	58.3	+60 24	8.1	8.9	G5	4	..	37716i	52	3329	58.5	-21 6	9.8	10.3	Ko	1	..	40450b
3	2410	58.3	+39 31	8.22	9.29	K2	2	..	38658i	53	R	58.5	-21 55	10.1	10.1	Ao	1	0,1	40282b
4	2171	58.3	+26 20	6.87	7.01	A5	7	..	37505i	54	9699	58.5	-23 14	10.3	9.4	Ko	3	..	40450b
5	2305	58.3	+22 29	9.6	10.1	F8	3	..	37504i	55	8311	58.5	-26 59	7.52	7.9	Ao	6	..	41399b
6	2553	58.3	+20 29	9.6	10.6	Ko	2	..	37504i	56	8920	58.5	-30 10	8.4	9.7	F5	2	..	41399b
7	2552	58.3	+20 8	9.6	10.6	Ko	3	..	37504i	57	8726	58.5	-31 25	6.52	8.0	Ma	6	..	41375b
8	3184	58.3	-10 46	5.62	6.62	Ko	8	..	13409b	58	6468	58.5	-40 31	9.1	8.9	F	1	..	41327b
9	3179	58.3	-16 53	9.03	9.11	A3	3	..	41220b	59	5265	58.5	-51 52	10.5	10.2	Go	2	..	37600b
10	9489	58.3	-24 23	9.8	10.7	A2	2	..	40450b	60	4149	58.5	-52 42	10.5	9.9	Go	2	..	37662b
11	9488	58.3	-24 38	9.5	10.1	Fo	3	..	40450b	61	4265	58.5	-54 14	10.3	10.3	Ao	1	..	37662b
12	6685	58.3	-42 17	8.4	8.6	Go	4	..	9376b	62	2963	58.5	-58 17	9.0	9.1	B	2	..	40090b
13	6730	58.3	-43 52	8.9	9.0	G5	2	..	9376b	63	2970	58.5	-60 7	9.2	9.2	B9	2	..	21154b
14	6621	58.3	-45 30	10.2	9.6	F8	1	..	9376b	64	1631	58.5	-67 41	8.5	9.5	Ko	1	..	40075b
15	6120	58.3	-49 8	10.2	10.8	Ao	2	..	38416b	65	1307	58.6	+60 22	9.4	10.6	K5	1	..	37716i
16	5781	58.3	-49 36	8.6	8.7	Fo	4	..	38416b	66	1346	58.6	+59 27	9.0	9.8	G5	2	..	37716i
17	5779	58.3	-49 53	8.8	8.8	F8	3	..	38416b	67	2303	58.6	+23 43	8.4	9.0	Go	4	..	37504i
18	5261	58.3	-51 16	11.5	10.5	F2	2	..	37600b	68	2281	58.6	+15 11	10.0	10.8	G5	2	..	4905m
19	5260	58.3	-51 26	10.9	10.2	Ao	3	..	37600b	69	2445	58.6	+9 17	8.5	8.9	F5	3	E	38319i
20	4144	58.3	-52 11	9.3	9.3	Ao	3	..	37662b	70	3333	58.6	-12 54	6.37	7.15	G5	8	..	13409b
21	..	58.3	-53 51	Nov.	Nov.	Pc	..	R	76,22	71	3187	58.6	-15 21	8.63	9.63	Ko	4	..	41220b
22	4299	58.3	-54 2	9.4	10.8	Ma	2	..	37600b	72	3221	58.6	-21 33	9.6	10.1	Ko	2	0,1	40450b
23	4131	58.3	-56 27	10.0	10.0	Ao	2	..	37662b	73	7042	58.6	-44 22	9.6	9.5	A3	1	..	9376b
24	4123	58.3	-57 50	8.7	9.5	Ao	3	..	40090b	74	4085	58.6	-55 18	9.35	10.0	Ko	1	..	37662b
25	4122	58.3	-58 2	10.0	10.0	Ao	2	..	40090b	75	4084	58.6	-55 44	8.6	10.0	Ma	..	..	M
26	2964	58.3	-59 59	8.98	8.8	B5	6	..	21154b	76	4135	58.6	-56 22	10.0	10.0	B8	2	..	37662b
27	1629	58.3	-67 54	8.5	8.5	B9	5	..	40075b	77	4138	58.6	-56 39	10.0	10.0	Ao	3	..	37600b
28	679	58.4	+66 54	9.4	10.4	Ko	3	..	37554i	78	4133	58.6	-57 58	9.3	9.4	A2	4	..	40090b
29	2100	58.4	+31 47	8.55	9.05	F8	3	..	37572i	79	2968	58.6	-58 10	8.4	8.8	G5	6	..	40090b
30	2335	58.4	+14 11	10.0	10.5	F8	2	..	4905m	80	2972	58.6	-59 12	7.08	7.3	B8	4	5,8 R	43205b
31	2402	58.4	+7 34	9.3	9.7	F5	3	..	21675b	81	1280	58.6	-70 58	7.9	7.9	B9	5	..	40075b
32	2399	58.4	-0 56	8.7	9.8	K2	2	..	22977b	82	1190	58.6	-72 1	9.7	9.7	Ao	2	..	40298b
33	3071	58.4	-8 27	9.6	10.2	Go	1	..	13417b	83	763	58.6	-75 8	7.29	7.2	A2	8	..	40298b
34	3166	58.4	-20 6	9.63	10.0	Ao	2	..	41220b	84	2413	58.7	+39 24	7.22	7.30	A3	..	2,7	56,88
35	8813	58.4	-29 39	8.3	10.0	K5	1	..	41399b	85	2276	58.7	+21 26	9.2	10.0	G5	2	..	37504i
36	6688	58.4	-43 0	9.1	8.9	A3	4	..	9376b	86	2337	58.7	+14 26	10.7	11.5	G5	1	..	4905m
37	7040	58.4	-44 54	7.6	8.4	Ko	4	..	9376b	87	3011	58.7	-12 3	9.8	10.4	Go	3	..	46201b
38	4147	58.4	-52 56	9.8	10.4	Go	2	..	37600b	88	3330	58.7	-21 2	9.2	10.3	K5	3	0,2	40450b
39	4301	58.4	-53 32	10.6	10.6	B9	1	..	37600b	89	8420	58.7	-25 18	9.70	10.6	K2	2	..	40450b
40	4264	58.4	-54 54	8.3	8.3	B9	7	..	37662b	90	4305	58.7	-53 54	10.0	10.0	B8	3	..	37600b
41	4132	58.4	-56 14	9.2	9.2	Ao	4	..	37662b	91	4135	58.7	-57 34	9.6	9.7	A2	3	..	40090b
42	4127	58.4	-57 52	8.7	8.5	B9	4	..	40090b	92	2973	58.7	-59 17	8.9	9.1	Ao	2	..	40090b
43	2961	58.4	-58 29	10.2	10.2	Ao	2	..	40090b	93	2044	58.7	-61 56	8.5	9.1	F5	3	..	38834b
44	1298	58.5	+57 53	8.1	8.7	Go	3	..	37717i	94	1191	58.7	-71 13	7.6	7.6	Ao	6	..	40075b
45	2195	58.5	+34 44	9.42	10.42	K	3	..	37572i	95	318	58.8	+83 17	8.3	8.8	F8	4	..	37465i
46	2073	58.5	+33 42	9.3	9.9	Go	3	..	37572i	96	1890	58.8	+45 41	8.9	9.7	G5	2	..	38308i
47	2336	58.5	+13 50	10.7	11.5	G5	1	..	4905m	97	2309	58.8	+16 48	8.3	8.6	F2	5	3,3	4905m
48	2452	58.5	+8 8	8.1	9.1	Ko	4	E	38319i	98	2240	58.8	+10 31	8.3	9.4	K2	5	0,2	19611b
49	2729	58.5	+0 32	6.15	7.15	Ko	9	R	22977b	99	2415	58.8	+4 12	7.11	7.39	Fo	7	..	13388b
50	3280	58.5	-2 40	9.3	10.7	Mc	..	..	M	100	3300	58.8	-7 8	7.46	8.46	Ko	8	..	13417b

THE HENRY DRAPER CATALOGUE.

95900

10^h 58^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3198	58.8	- 9 47	8.9	10.1	K5	1	..	13417b	51	2045	59.0	-61 21	9.0	9.1	A2	3	..	38834b
2	3070	58.8	-22 16	9.3	9.5	Ko	3	..	40450b	52	1599	59.0	-65 39	8.9	8.9	B8	2	..	38834b
3	9494	58.8	-25 7	8.65	8.9	Go	6	..	40450b	53	1407	59.0	-68 50	9.2	9.2	Ao	1	..	40075b
4	8421	58.8	-25 24	9.0	9.3	K2	4	..	40450b	54	1406	59.0	-69 0	9.2	9.2	Ao	1	..	40075b
5	8819	58.8	-29 44	8.3	10.0	Ko	2	..	41399b	55	696	59.1	+66 22	8.5	9.3	G5	2	..	37346i
6	6873	58.8	-40 1	11.0	9.5	Ao	2	..	41327b	56	1348	59.1	+59 0	9.4	9.9	F8	2	..	37716i
7	6629	58.8	-45 55	8.2	8.3	Ao	6	..	9376b	57	2074	59.1	+33 32	8.9	9.4	F8	4	..	37572i
8	5628	58.8	-50 27	7.82	8.7	G5	5	..	38416b	58	2444	59.1	+18 26	9.3	9.8	F8	2	..	37504i
9	5271	58.8	-52 4	10.0	9.6	A2	2	..	37662b	59	2283	59.1	+15 17	7.9	8.9	Ko	4	0.7	37504i
10	4137	58.8	-57 40	9.5	9.5	Ao	3	..	40090b	60	2397	59.1	+ 5 46	8.1	9.5	Ma	3	..	21675b
11	1861	58.8	-62 57	8.6	9.0	F5	2	..	38834b	61	3071	59.1	-22 22	9.3	9.4	F5	3	..	40450b
12	1610	58.8	-64 10	8.9	9.2	Fo	2	0.2-	38798b	62	8426	59.1	-25 15	9.90	10.4	Fo	2	..	40450b
13	1506	58.8	-66 45	8.3	9.5	K5	1	..	40075b	63	7860	59.1	-32 54	7.27	8.8	Ko	6	..	41375b
14	1632	58.8	-67 44	9.5	9.5	A	1	..	40075b	64	6477	59.1	-40 34	8.1	8.6	G5	3	..	41327b
15	1089	58.8	-72 57	7.3	7.7	F5	8	..	40298b	65	6698	59.1	-46 44	10.2	10.7	Mb	1	..	38416b
16	650	58.8	-77 4	9.8	10.3	F8	2	..	21530b	66	4092	59.1	-55 52	9.2	10.0	G5	4	..	37600b
17	1306	58.9	+57 32	8.5	9.0	F8	3	..	37717i	67	4148	59.1	-57 48	10.2	10.2	A	1	..	40090b
18	2206	58.9	+34 54	9.42	10.42	K	2	..	37572i	68	4145	59.1	-57 56	9.5	9.5	B9	5	..	40090b
19	2206	58.9	+16 24	8.7	9.7	Ko	3	..	4905m	69	2983	59.1	-58 13	10.0	10.0	Ao	1	..	40090b
20	2338	58.9	+14 17	9.5	9.8	F2	3	..	4905m	70	2981	59.1	-58 30	9.1	9.2	B9	3	..	40090b
21	2396	58.9	+ 6 25	8.9	9.4	F8	2	..	21675b	71	2480	59.1	-60 8	8.58	8.8	Fo	4	..	40090b
22	2730	58.9	+ 0 31	8.5	9.0	F8	8	..	22977b	72	2046	59.1	-61 14	7.9	8.8	B3	3	1.3	38798b
23	9703	58.9	-24 4	10.5	10.5	Ko	1	..	40450b	73	1614	59.1	-64 47	9.5	9.5	Ao	2	..	38798b
24	6938	58.9	-36 7	8.8	9.3	Ko	2	..	41327b	74	707	59.1	-75 31	8.6	8.6	Ao	3	..	40298b
25	7006	58.9	-37 51	8.8	9.3	G5	3	..	41327b	75	1308	59.2	+60 6	9.4	10.0	G	1	..	37716i
26	6692	58.9	-42 29	9.0	8.9	F2	5	..	9376b	76	2418	59.2	+38 48	7.38	7.72	F2	5	..	38658i
27	6129	58.9	-48 27	11.5	10.2	A3	2	..	38416b	77	2102	59.2	+31 59	7.32	8.10	G5	6	..	37572i
28	5273	58.9	-51 32	10.5	10.2	Fo	3	..	37600b	78	2120	59.2	+29 44	8.06	9.06	Ko	4	..	37572i
29	5272	58.9	-52 0	10.0	10.4	Ko	2	..	37600b	79	2308	59.2	+22 44	10.4	10.8	F5	2	..	37504i
30	4141	58.9	-57 51	9.1	8.8	Ao	6	..	40090b	80	2398	59.2	+ 6 21	8.5	9.3	G5	5	..	21675b
31	2975	58.9	-58 34	8.7	8.2	Ao	6	..	40090b	81	2401	59.2	- 0 44	6.79	6.79	Ao	10	..	22977b
32	2977	58.9	-59 0	8.9	9.4	B9	2	..	40090b	82	3015	59.2	-12 9	9.3	9.9	Go	2	..	46201b
33	2478	58.9	-60 17	7.64	7.7	F5	6	..	38834b	83	8427	59.2	-25 25	11.0	10.4	F8	2	..	40450b
34	2414	59.0	+38 47	6.08	6.14	A2	..	0.9	56,88	84	8825	59.2	-29 17	8.4	9.5	K2	1	..	11310b
35	2207	59.0	+34 51	10.4	11.0	G	1	..	37572i	85	8928	59.2	-31 1	8.3	10.0	K5	1	..	41410b
36	2282	59.0	+14 48	8.59	9.66	K2	5	..	4905m	86	4309	59.2	-53 14	9.8	10.2	F5	2	..	37600b
37	3193	59.0	- 5 54	8.6	9.6	Ko	2	..	13417b	87	4310	59.2	-53 53	9.4	9.4	B9	4	..	37662b
38	3074	59.0	- 8 32	7.9	8.2	F2	8	..	13417b	88	4150	59.2	-56 12	9.1	10.2	K2	2	..	37662b
39	3093	59.0	-19 7	6.55	6.69	A5	9	..	41220b	89	4152	59.2	-57 24	9.4	9.7	Fo	2	..	40090b
40	3168	59.0	-20 12	8.98	9.7	Ko	2	..	41220b	90	2986	59.2	-58 15	9.1	9.2	G	2	..	40090b
41	7463	59.0	-33 10	9.1	8.8	Ao	5	..	41375b	91	2981	59.2	-60 3	8.9	8.9	Ao	4	..	40090b
42	4270	59.0	-54 13	9.5	9.5	Ao	5	..	37662b	92	2051	59.2	-61 55	9.1	9.7	B9	2	..	38798b
43	4271	59.0	-54 31	9.7	10.3	Go	2	R	37662b	93	1862	59.2	-62 32	8.8	8.8	B8	6	..	38834b
44	4272	59.0	-54 31	9.7	10.3	Go	2	..	37662b	94	1615	59.2	-64 9	7.7	7.7	B9	4	..	38834b
45	4268	59.0	-54 53	9.4	10.0	Go	3	..	37662b	95	1507	59.2	-66 35	7.9	9.3	Mb	3	0.3	38834b
46	4146	59.0	-56 26	9.0	10.0	Ko	2	..	37662b	96	1636	59.2	-67 22	8.4	9.5	K2	2	..	40075b
47	4142	59.0	-58 4	10.2	10.2	Ao	2	..	40090b	97	1284	59.2	-70 57	8.3	8.3	B9	2	..	40075b
48	2979	59.0	-58 21	9.1	9.1	Ao	3	..	40090b	98	1091	59.2	-72 31	9.4	9.4	Ao	2	..	40298b
49	2978	59.0	-58 35	8.9	8.9	B9	3	..	40090b	99	1090	59.2	-72 55	8.5	9.5	Ko	2	..	40298b
50	2479	59.0	-60 22	6.68	8.9	Ma	3	..	38834b	100	630	59.3	+68 7	9.9	10.7	G5	2	..	37554i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

96000

10^h 59^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	817	59.3	+65 21	7.22	7.50	Fo	6	0,6	37346i	51	3073	59.6	-22 36	10.2	10.9	K5	1	..	40450b
2	2208	59.3	+16 35	9.7	10.5	G5	3	..	4905m	52	3072	59.6	-22 57	10.2	10.8	K2	1	..	40450b
3	2348	59.3	+13 12	6.70	6.70	Ao	8	0,10	38319i	53	8740	59.6	-31 27	9.2	9.2	Ao	3	..	41410b
4	3288	59.3	-13 38	9.6	10.4	G5	3	..	46201b	54	6924	59.6	-36 11	7.15	7.8	A2	..	1,8	56,129
5	3223	59.3	-21 45	8.9	9.5	Ko	4	..	40450b	55	6923	59.6	-36 18	8.8	9.0	A2	4	..	41327b
6	8735	59.3	-32 3	9.0	9.7	Ko	1	..	41375b	56	6642	59.6	-45 12	8.58	9.5	Mb	3	..	38416b
7	6454	59.3	-47 27	9.8	10.7	K2	1	..	38416b	57	4281	59.6	-54 32	9.4	9.4	Ao	4	..	37662b
8	5641	59.3	-50 49	6.94	7.7	A5	..	5,8	56,128	58	4170	59.6	-57 51	8.7	8.6	B9	7	..	40090b
9	5276	59.3	-51 29	9.8	9.9	A5	5	..	37600b	59	2995	59.6	-58 14	8.5	7.6	B9	7	..	40090b
10	4162	59.3	-53 3	9.8	10.8	Ko	1	..	37600b	60	2988	59.6	-60 2	8.84	8.2	B5	5	..	40090b
11	4156	59.3	-58 1	9.1	9.1	Ao	4	..	40090b	61	1440	59.7	+55 21	8.5	9.1	Go	3	..	37717i
12	2987	59.3	-58 13	9.2	9.2	Ao	3	..	40090b	62	2402	59.7	-0 25	8.83	9.90	K2	2	..	22977b
13	2990	59.3	-58 40	9.1	9.1	Ao	3	..	40090b	63	2476	59.7	-1 58	8.4	9.4	Ko	3	..	22977b
14	646	59.4	+70 4	9.1	10.1	Ko	2	..	37554i	64	3040	59.7	-3 40	7.53	8.31	G5	7	..	22977b
15	1218	59.4	+60 57	9.4	9.8	F5	2	..	37716i	65	9503	59.7	-24 20	9.6	10.6	Ko	1	..	40450b
16	2419	59.4	+38 58	7.56	7.90	F2	4	..	38658i	66	8434	59.7	-26 6	9.5	9.8	A3	2	..	40450b
17	2405	59.4	+7 43	10.3	10.4	A3	2	..	21675b	67	6706	59.7	-42 8	7.3	7.7	Ko	3	..	43044b
18	3006	59.4	-4 50	8.3	9.5	K5	2	3,4	22977b	68	4317	59.7	-53 39	6.57	8.0	Ko	8	..	37662b
19	3076	59.4	-8 28	9.3	10.5	K5	2	..	19138b	69	4314	59.7	-53 50	10.0	10.0	Ao	3	..	37600b
20	8324	59.4	-26 45	9.0	9.8	Ko	2	..	41399b	70	4101	59.7	-55 49	10.0	10.0	Ao	4	..	37600b
21	5645	59.4	-50 29	7.4	8.7	Ko	6	..	38416b	71	2990	59.7	-59 45	9.0	8.9	A2	4	..	40090b
22	5279	59.4	-51 34	8.8	9.0	Ko	6	..	37600b	72	1413	59.7	-68 14	9.0	9.1	A2	1	..	40075b
23	4311	59.4	-53 24	8.9	9.2	B8	4	..	37662b	73	1194	59.7	-71 33	8.6	9.7	K2	2	..	40298b
24	4158	59.4	-56 28	9.9	10.3	F5	2	..	37600b	74	697	59.8	+66 25	7.67	8.45	G5	4	0,4	37346i
25	4155	59.4	-57 0	9.4	9.4	Ao	3	..	40090b	75	2103	59.8	+32 29	8.0	9.0	Ko	4	..	37572i
26	4159	59.4	-57 47	9.7	9.7	B9	3	..	40090b	76	2279	59.8	+21 21	8.7	9.3	Go	5	..	37504i
27	940	59.5	+63 9	8.9	9.7	G5	3	..	37346i	77	3339	59.8	-12 44	9.1	9.7	Go	2	..	46201b
28	1349	59.5	+59 2	10.1	10.7	G	1	..	37716i	78	3189	59.8	-15 42	8.5	8.5	Ao	5	..	41220b
29	2412	59.5	+19 22	9.3	10.1	G5	1	..	37504i	79	3181	59.8	-16 20	8.7	9.5	G5	3	..	41220b
30	3096	59.5	-19 7	9.3	9.9	Go	2	..	41220b	80	3074	59.8	-22 14	8.08	8.3	F8	8	..	40450b
31	3169	59.5	-19 50	9.6	10.0	G	1	..	41220b	81	8936	59.8	-30 17	7.87	8.8	K2	3	..	11310b
32	3334	59.5	-20 23	8.83	9.7	G5	2	..	41220b	82	6886	59.8	-39 17	7.87	8.9	K5	3	..	41327b
33	6882	59.5	-39 46	7.37	7.7	Fo	4	2,7	43044b	83	6645	59.8	-45 31	9.1	9.2	F5	2	..	9376b
34	6457	59.5	-47 16	9.2	10.1	G5	2	..	38416b	84	5286	59.8	-51 11	8.2	9.0	Ko	3	..	38416b
35	5798	59.5	-49 23	9.4	9.6	Ko	2	..	38416b	85	5284	59.8	-51 29	10.9	10.8	Ao	2	..	37600b
36	4278	59.5	-54 16	9.4	9.4	Ao	4	..	37612b	86	5285	59.8	-51 56	9.1	10.5	Ma	2	..	37600b
37	4162	59.5	-57 19	8.8	9.5	Ko	3	..	40090b	87	4102	59.8	-55 14	9.45	10.0	G5	2	..	37662b
38	4163	59.5	-57 36	9.0	10.0	Ko	2	..	40090b	88	4174	59.8	-57 25	6.2	6.8	B3	..	0,8	28,205
39	4164	59.5	-57 42	9.0	10.0	Ko	2	..	40090b	89	4175	59.8	-57 54	9.7	9.7	Ao	2	..	40090b
40	4168	59.5	-58 2	10.0	10.0	A	3	R	40090b	90	4177	59.8	-57 55	10.0	10.0	A	1	..	40090b
41	2993	59.5	-58 15	8.9	8.9	Ao	4	..	40090b	91	3000	59.8	-58 20	9.2	9.2	Ao	2	..	40090b
42	2992	59.5	-58 54	8.4	8.2	B	5	R	40090b	92	766	59.8	-75 3	8.34	7.9	B9	7	..	40298b
43	2994	59.5	-59 8	9.1	9.7	Go	2	..	40090b	93	1309	59.9	+60 22	9.0	9.4	F5	2	..	37716i
44	1193	59.5	-71 42	7.1	7.1	B8	10	..	40298b	94	2335	59.9	+25 45	7.49	8.05	Go	5	..	37505i
45	794	59.5	-73 36	8.4	9.6	K5	2	..	40298b	95	2558	59.9	+20 42	9.2	10.0	G5	2	..	37504i
46	2075	59.6	+33 23	9.6	10.1	F8	3	..	37572i	96	2310	59.9	+17 0	10.7	11.3	Go	2	..	4905m
47	2209	59.6	+15 53	10.7	11.7	Ko	1	..	4905m	97	2455	59.9	+7 53	4.66	4.94	Fo	..	R	56,88
48	3283	59.6	-2 26	8.7	9.0	F2	3	..	22977b	98	6714	59.9	-47 2	9.2	9.6	F8	3	..	38416b
49	3255	59.6	-14 22	8.7	9.1	F5	4	3,4	13409b	99	4318	59.9	-53 53	9.3	10.3	Ko	1	..	37662b
50	3335	59.6	-20 34	8.1	8.8	F2	6	..	41220b	100	4285	59.9	-54 19	9.0	10.2	Ko	2	..	37662b

THE HENRY DRAPER CATALOGUE.

96100

10^h 59^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4284	m. 59.9	° 54 28	10.2	10.2	Ao	1	..	37662b	51	5811	m. 0.2	° 49 15	9.1	9.6	Ko	2	..	38416b
2	4162	59.9	-56 39	10.2	10.3	A2	2	..	37600b	52	5812	0.2	-49 46	9.0	9.4	Ko	2	..	38416b
3	3002	59.9	-58 18	9.7	9.7	Ao	1	..	40090b	53	5658	0.2	-50 37	10.2	10.1	Ao	1	..	38416b
4	2055	59.9	-61 32	9.0	10.0	A5	2	..	38798b	54	5295	0.2	-51 55	9.2	9.4	G5	7	..	37600b
5	1793	0.0	+50 42	7.07	7.40	F5	8	..	37717i	55	4322	0.2	-54 0	10.0	10.0	Ao	2	..	37662b
6	2421	0.0	+38 48	8.8	9.8	K	1	..	38658i	56	4172	0.2	-56 30	10.0	10.0	B9	3	..	37662b
7	2478	0.0	-1 16	9.5	9.6	A2	2	..	22977b	57	3011	0.2	-58 19	9.7	9.7	Ao	1	..	40090b
8	3189	0.0	-11 12	8.1	8.6	F8	7	..	19140b	58	2995	0.2	-59 16	8.7	8.5	B	5	..	40090b
9	8331	0.0	-26 18	9.1	10.4	K5	1	..	40450b	59	2996	0.2	-59 20	7.9	8.2	B	7	..	40090b
10	8743	0.0	-31 32	9.3	9.4	F5	2	..	41410b	60	1094	0.2	-72 19	8.8	10.0	K5	1	..	40298b
11	7478	0.0	-33 22	9.0	9.1	F5	3	..	41375b	61	2422	0.3	+38 56	7.52	8.59	K2	5	..	38658i
12	6758	0.0	-44 3	9.8	9.6	A2	2	..	9376b	62	2208	0.3	+35 44	8.8	9.4	Go	3	..	37572i
13	6466	0.0	-47 8	5.94	6.5	A5	..	0,10	56,129	63	2231	0.3	+31 9	8.8	10.2	Ma	2	..	37572i
14	4172	0.0	-52 26	9.4	10.5	K2	3	..	37600b	64	..	0.3	+31 8	..	..	G	1	..	37572i
15	4174	0.0	-52 47	9.8	9.9	A2	2	..	37662b	65	2210	0.3	+16 0	10.7	11.9	K5	1	..	4905m
16	4180	0.0	-57 14	8.8	9.1	G5	3	..	40090b	66	3078	0.3	-8 27	9.3	10.1	G5	3	..	19138b
17	4182	0.0	-57 45	10.0	10.0	Ao	3	..	40090b	67	3201	0.3	-9 44	8.3	9.1	G5	7	..	13417b
18	4181	0.0	-57 56	8.6	8.9	Ko	5	R	37600b	68	8336	0.3	-26 19	8.9	8.9	Ao	6	0,4	40450b
19	4181	0.0	-57 56	8.6	8.9	A2	5	R	37600b	69	6956	0.3	-35 20	9.6	9.6	A3	2	..	41410b
20	4183	0.0	-58 4	10.3	10.3	Ao	5	R	40090b	70	6147	0.3	-48 34	8.6	8.7	F8	6	..	38416b
21	4186	0.0	-58 4	10.3	10.3	Ao	5	R	40090b	71	4323	0.3	-53 26	8.6	9.9	Ko	2	..	37662b
22	3003	0.0	-58 11	8.4	8.5	F2	5	..	40090b	72	4289	0.3	-55 5	9.9	10.0	A2	2	..	37662b
23	2057	0.0	-61 37	9.5	9.5	Ao	3	..	38798b	73	4192	0.3	-57 58	10.2	10.3	A3	1	..	40090b
24	386	0.0	-84 3	6.26	6.2	Ao	10	R	13459b	74	3014	0.3	-58 9	8.7	8.5	G5	5	..	40090b
25	1414	0.1	+54 23	7.76	9.11	Ma	3	..	37717i	75	3016	0.3	-58 13	8.4	8.5	G5	4	..	40090b
26	1463	0.1	+52 52	7.30	8.30	Ko	4	..	37717i	76	3003	0.3	-59 24	8.8	8.9	A2	3	..	40090b
27	1892	0.1	+44 51	7.45	8.52	K2	4	..	38308i	77	481	0.3	-81 45	9.0	9.1	A5	2	..	20869b
28	2122	0.1	+29 32	9.2	9.6	F5	3	..	37572i	78	360	0.4	+80 59	8.9	9.3	F5	2	..	37465i
29	2450	0.1	+18 12	10.7	11.7	K	1	..	37504i	79	2106	0.4	+32 41	9.7	10.7	K	1	..	37572i
30	2312	0.1	+17 8	8.9	9.3	F5	3	..	37504i	80	2232	0.4	+31 38	9.6	10.4	G5	3	..	37572i
31	3291	0.1	-13 40	9.3	9.3	Ao	3	0,3	13130b	81	2415	0.4	+19 24	8.3	9.1	G5	3	..	37504i
32	3229	0.1	-21 50	9.1	9.4	Ko	4	..	40450b	82	..	0.4	+16 57	..	..	Go	1	..	4905m
33	6651	0.1	-45 34	7.6	7.8	A2	7	..	9376b	83	3197	0.4	-5 54	8.6	9.1	F8	3	..	13417b
34	5655	0.1	-50 41	8.9	9.9	Mc	3	..	38416b	84	3190	0.4	-15 19	9.31	9.87	Go	1	..	41220b
35	4175	0.1	-52 34	7.3	8.4	A3	6	..	37662b	85	3188	0.4	-16 56	10.2	10.8	Go	1	..	46201b
36	4105	0.1	-55 14	9.4	10.0	Go	2	..	37662b	86	3341	0.4	-21 3	10.5	10.5	G5	1	..	40450b
37	3005	0.1	-58 14	8.7	7.9	Ao	6	..	40090b	87	8840	0.4	-29 54	7.40	8.5	K2	5	..	11310b
38	3006	0.1	-58 23	10.0	10.0	Ao	1	..	40090b	88	8747	0.4	-31 38	8.9	9.1	A2	2	..	41410b
39	2498	0.1	-60 23	8.5	8.6	B	4	..	38798b	89	5299	0.4	-51 43	11.5	10.5	Ao	2	..	37600b
40	2058	0.1	-61 59	8.9	9.4	A3	2	..	38834b	90	4291	0.4	-54 48	9.1	9.9	Ao	3	..	37662b
41	1605	0.1	-66 0	8.3	9.5	K5	1	..	38834b	91	3019	0.4	-58 9	8.6	8.6	A	3	..	40090b
42	1415	0.1	-68 54	9.4	9.4	Ao	1	..	40075b	92	3020	0.4	-58 17	9.4	9.4	A	1	..	40090b
43	1290	0.1	-71 5	7.7	8.0	F2	5	..	40075b	93	2499	0.4	-60 57	7.6	8.5	K5	7	..	38834b
44	2284	0.2	+15 26	10.7	11.7	K	1	..	4905m	94	2061	0.4	-61 14	9.4	9.7	Fo	2	..	38798b
45	3196	0.2	-5 58	8.1	9.1	Ko	5	..	13417b	95	1868	0.4	-62 25	9.0	10.2	K5	2	..	38798b
46	6954	0.2	-35 16	5.53	6.0	Ao	..	0,10	56,129	96	769	0.4	-74 8	8.9	8.9	Ao	3	..	40298b
47	7019	0.2	-37 10	8.19	8.8	Ao	6	..	41327b	97	2398	0.5	+40 21	8.2	8.6	F5	3	E	38308i
48	6494	0.2	-41 6	9.3	9.0	A3	3	..	9376b	98	2105	0.5	+30 34	8.2	9.2	Ko	6	..	37572i
49	6652	0.2	-45 28	8.9	9.0	Ko	2	..	9376b	99	2306	0.5	+23 14	8.8	9.1	Fo	4	..	37504i
50	6653	0.2	-45 52	8.5	10.0	K2	1	..	9376b	100	2453	0.5	+2 56	8.4	8.5	A5	4	..	13370b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

96200

11^h 0^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3191	m. 0.5	° -16 10	9.3	9.7	F5	2	..	4122ob	51	631	m. 0.8	° +68 46	10.5	11.3	G5	2	..	37554i
2	8338	0.5	-26 45	5.06	5.48	F5	..	3,9 R	28,205	52	3192	0.8	-15 45	9.1	9.7	Go	3	..	4122ob
3	7874	0.5	-32 33	9.2	9.7	F8	2	..	41375b	53	3232	0.8	-21 34	8.9	9.4	F5	5	..	4045ob
4	6474	0.5	-47 26	11.5	10.1	A3	3	..	38416b	54	3076	0.8	-22 36	9.6	10.9	K5	1	..	4045ob
5	6473	0.5	-47 39	7.8	7.7	Ao	9	..	9453b	55	4191	0.8	-52 36	10.1	10.1	Ao	3	..	3760ob
6	6154	0.5	-48 46	9.8	9.6	A5	3	..	38416b	56	4116	0.8	-55 21	9.5	9.5	Ao	4	..	37662b
7	4182	0.5	-52 29	9.5	10.5	Ko	1	..	3760ob	57	4114	0.8	-55 33	9.0	10.2	Ma	2	..	37662b
8	4326	0.5	-53 29	8.7	9.9	Ko	1	..	37662b	58	4117	0.8	-55 52	8.9	9.4	F8	4	..	37662b
9	4110	0.5	-55 39	10.2	10.2	B9	2	..	3760ob	59	4214	0.8	-57 50	10.0	10.0	A	1	..	4009ob
10	4108	0.5	-55 40	9.6	10.6	Ko	1	..	3760ob	60	3043	0.8	-58 10	8.9	8.9	A	4	..	4009ob
11	4199	0.5	-57 56	10.0	10.0	Ao	2	..	4009ob	61	3019	0.8	-59 10	7.9	7.7	Bo	6	..	4009ob
12	3027	0.5	-58 9	9.1	9.1	A	3	..	4009ob	62	3020	0.8	-59 32	8.9	9.7	Ao	2	..	4009ob
13	3028	0.5	-58 10	9.1	8.3	A	3	..	4009ob	63	3018	0.8	-59 58	8.3	8.3	B9	5	..	4009ob
14	2062	0.5	-62 2	9.9	10.0	A5	1	..	38798b	64	2505	0.8	-60 31	8.0	7.3	B3	7	..	38834b
15	1869	0.5	-62 59	8.7	9.5	G5	1	..	38798b	65	1621	0.8	-65 1	7.98	9.5	K5	1	..	38834b
16	1292	0.5	-70 28	7.7	7.7	B9	6	..	40075b	66	1524	0.8	-66 21	8.3	8.4	A2	6	0,5	38834b
17	1539	0.6	+51 55	8.9	9.3	F5	2	..	37717i	67	1641	0.8	-67 28	8.9	8.9	Ao	6	..	40075b
18	2350	0.6	+13 7	7.7	8.1	F5	6	0,9	38319i	68	1475	0.8	-69 23	7.7	8.0	Fo	7	..	40075b
19	3011	0.6	- 4 51	8.9	9.7	G5	3	..	19138b	69	1197	0.8	-71 21	8.2	9.2	Ko	5	..	40298b
20	3190	0.6	-10 32	6.14	6.22	A3	9	..	13409b	70	2352	0.9	+13 20	8.5	9.3	G5	3	..	4905m
21	3018	0.6	-11 37	9.3	10.4	K2	1	..	19140b	71	2456	0.9	+ 7 51	9.3	9.7	F5	1	..	21675b
22	3020	0.6	-12 4	9.6	10.2	Go	2	..	19140b	72	2412	0.9	+ 7 40	8.3	8.7	F5	6	E	38319i
23	6156	0.6	-48 24	10.2	10.1	F5	1	..	38416b	73	2411	0.9	+ 7 34	8.7	9.2	F8	5	..	21675b
24	6157	0.6	-48 51	6.40	6.5	Ao	6	..	4949b	74	2519	0.9	+ 1 45	7.9	9.3	Ma	3	..	1337ob
25	4185	0.6	-52 10	9.2	10.2	Ko	4	..	3760ob	75	3199	0.9	- 6 1	9.3	10.5	K5	2	..	19138b
26	4206	0.6	-58 1	9.0	8.2	B8	7	..	4009ob	76	3172	0.9	-19 53	8.3	8.8	Go	5	..	4122ob
27	3037	0.6	-58 13	8.9	8.2	A	4	..	4009ob	77	3344	0.9	-21 7	10.0	10.5	G5	2	..	4045ob
28	3013	0.6	-60 0	8.68	8.8	B8	3	..	4009ob	78	6730	0.9	-46 21	8.5	8.4	Ao	6	..	9376b
29	3012	0.6	-60 7	9.04	10.3	K5	1	R	4009ob	79	6162	0.9	-48 39	9.6	9.4	G5	3	..	38416b
30	2500	0.6	-61 5	9.7	9.7	Ao	2	..	38798b	80	6163	0.9	-49 4	8.4	7.9	A3	5	..	38416b
31	514	0.7	+72 40	8.4	8.7	Fo	2	..	37554i	81	5672	0.9	-50 44	9.4	9.3	F8	3	..	38416b
32	1307	0.7	+57 34	8.2	8.6	F5	3	..	37717i	82	5308	0.9	-51 51	9.4	9.4	Ko	6	..	3760ob
33	1498	0.7	+56 36	7.48	8.55	K2	4	..	37717i	83	4217	0.9	-57 52	9.4	9.4	Ao	3	..	4009ob
34	2338	0.7	+24 45	8.81	9.59	G5	2	..	37505i	84	3049	0.9	-58 14	8.8	8.9	A3	3	..	4009ob
35	2351	0.7	+12 57	8.6	9.0	F5	4	..	4905m	85	3048	0.9	-58 28	8.7	8.8	A2	3	..	4009ob
36	9729	0.7	-23 27	10.8	10.0	G5	1	..	4045ob	86	3024	0.9	-59 25	8.2	8.3	B3	4	..	4009ob
37	9514	0.7	-24 30	9.1	9.8	A2	3	..	4045ob	87	1819	0.9	-64 5	6.7	6.7	B9	8	..	38834b
38	6714	0.7	-43 0	7.8	8.0	F2	2	..	43044b	88	1420	0.9	-68 10	9.2	9.2	Ao	1	..	40075b
39	6481	0.7	-47 35	9.2	10.0	G5	2	..	38416b	89	1421	0.9	-68 43	8.8	8.8	Ao	3	..	40075b
40	6482	0.7	-47 46	9.1	8.9	F2	3	..	9453b	90	796	0.9	-73 42	7.3	7.9	Go	7	..	40298b
41	5303	0.7	-51 42	9.4	9.0	Ao	8	..	3760ob	91	218	0.9	-86 44	10.3	10.6	F	1	..	22238b
42	4188	0.7	-52 20	8.5	9.0	Fo	4	..	37662b	92	682	1.0	+67 7	9.8	10.6	G5	2	..	37554i
43	4187	0.7	-52 40	9.4	9.4	Ao	6	..	3760ob	93	699	1.0	+66 17	8.8	9.8	Ko	2	..	37346i
44	4329	0.7	-53 20	9.7	10.0	Fo	2	..	37662b	94	1416	1.0	+54 14	8.2	8.5	Fo	4	..	37717i
45	4208	0.7	-58 8	8.6	8.6	Ao	4	..	4009ob	95	2153	1.0	+37 14	8.8	9.8	Ko	3	..	37572i
46	3038	0.7	-58 15	8.9	8.5	A	3	..	4009ob	96	3013	1.0	- 4 51	8.7	9.3	Go	5	..	19138b
47	3039	0.7	-58 29	9.0	8.0	A2	7	..	4009ob	97	3081	1.0	- 8 37	8.3	9.7	Mb	2	..	19138b
48	3017	0.7	-59 19	6.7	6.8	Bo	..	0,8	28,205	98	3022	1.0	-11 38	8.8	9.8	Ko	5	..	1914ob
49	1523	0.7	-66 58	9.3	9.3	Ao	1	..	40075b	99	7198	1.0	-34 56	8.08	9.1	K2	3	..	4141ob
50	1640	0.7	-67 12	9.0	9.3	Fo	3	..	40075b	100	6719	1.0	-42 34	7.4	7.7	F2	3	..	43044b

THE HENRY DRAPER CATALOGUE.

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11^h1^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6668	1.0	-46 0	9.2	10.3	K5	1	..	38416b	51	4337	1.3	-53 43	9.7	9.7	Ao	3	..	37662b
2	6487	1.0	-48 5	8.3	8.4	A2	6	..	9453b	52	4336	1.3	-54 8	10.2	10.3	A2	3	2,1	37600b
3	5310	1.0	-51 42	10.2	9.9	Ao	2	..	37600b	53	4191	1.3	-56 11	9.9	10.0	A3	3	..	37600b
4	3058	1.0	-58 8	9.2	9.2	Ao	3	..	40090b	54	4235	1.3	-58 5	8.6	8.6	B9	5	..	40090b
5	3056	1.0	-58 15	8.5	8.5	Ao	5	..	40090b	55	2511	1.3	-60 54	9.1	9.2	B	3	..	38798b
6	3053	1.0	-58 18	9.1	9.1	A	2	..	40090b	56	2512	1.3	-61 8	8.9	8.8	B5	4	..	38798b
7	3055	1.0	-58 32	8.8	8.9	Ao	3	..	40090b	57	2064	1.3	-61 18	8.5	8.8	B5	4	..	38798b
8	2508	1.0	-60 38	9.1	8.3	B	2	R	38834b	58	1626	1.3	-64 31	8.7	9.8	K2	1	..	38798b
9	1623	1.0	-64 52	8.6	8.9	Fo	3	..	38834b	59	1643	1.3	-67 26	9.3	9.3	Ao	2	..	40075b
10	2455	1.1	+ 2 56	8.6	9.2	Go	3	..	13370b	60	600	1.4	+68 54	8.4	9.8	Ma	3	0,2	37554i
11	3305	1.1	- 6 29	7.7	8.7	Ko	6	..	13417b	61	2457	1.4	+ 3 38	8.5	9.1	Go	2	..	13370b
12	3297	1.1	-13 40	10.0	10.1	A5	2	..	19140b	62	2386	1.4	+ 2 26	8.1	9.1	Ko	4	..	13370b
13	3193	1.1	-15 31	9.6	10.8	K5	2	..	41220b	63	2741	1.4	+ 0 25	8.1	8.4	Fo	8	..	22977b
14	8342	1.1	-26 45	5.69	5.64	B8	..	1,9 R	28,205	64	3196	1.4	-16 0	7.7	8.8	K2	5	..	41220b
15	7492	1.1	-33 42	9.5	9.1	Go	2	..	41410b	65	6900	1.4	-39 18	9.0	9.5	F8	2	..	41327b
16	7027	1.1	-37 23	8.21	9.6	K5	2	..	41327b	66	4125	1.4	-55 36	10.2	10.3	A5	2	..	37600b
17	7066	1.1	-44 41	7.8	8.9	F2	5	..	9376b	67	4193	1.4	-56 19	8.4	8.9	F8	6	..	37662b
18	6491	1.1	-47 28	9.6	10.4	K5	1	..	38416b	68	3066	1.4	-58 11	8.9	8.9	Ao	3	..	40090b
19	6492	1.1	-47 49	10.9	10.3	F5	2	..	38416b	69	423	1.5	+76 59	9.7	10.5	G5	2	..	38333i
20	5824	1.1	-50 1	8.47	8.5	B9	6	..	38416b	70	2155	1.5	+37 16	8.0	8.1	A2	7	E	37572i
21	5312	1.1	-51 45	11.5	10.8	F8	3	..	37600b	71	2419	1.5	+19 40	9.05	9.61	Go	3	..	37504i
22	4194	1.1	-52 15	9.3	9.4	A3	2	..	37662b	72	2452	1.5	+18 16	6.59	7.77	K5	5	..	37504i
23	4189	1.1	-56 47	9.7	10.0	F2	3	..	37600b	73	2290	1.5	+15 43	7.58	8.93	Ma	7	0,4	4905m
24	4224	1.1	-57 40	8.9	8.9	Ao	5	..	40090b	74	2245	1.5	+10 30	8.5	9.0	F8	2	..	38319i
25	647	1.2	+70 6	8.9	9.5	Go	2	..	37554i	75	2401	1.5	+ 5 58	7.9	8.2	Fo	4	..	13370b
26	1540	1.2	+51 48	8.6	9.4	G5	2	..	37717i	76	3082	1.5	- 8 45	9.8	10.4	Go	1	..	19138b
27	2052	1.2	+44 39	7.42	7.56	A5	7	..	38308i	77	3346	1.5	-12 53	8.1	9.1	Ko	7	..	19140b
28	2314	1.2	+17 23	9.3	9.8	F8	3	..	37504i	78	3103	1.5	-18 15	9.1	9.7	Go	1	..	46201b
29	3193	1.2	-11 13	9.2	9.6	F5	3	..	19140b	79	3175	1.5	-19 22	9.2	9.7	A2	2	..	41220b
30	3343	1.2	-12 32	8.1	9.1	Ko	3	..	19140b	80	8855	1.5	-29 26	8.7	8.9	Go	4	..	11310b
31	3298	1.2	-13 36	8.9	9.9	Ko	5	..	19140b	81	7207	1.5	-34 20	9.2	9.7	Ko	1	..	41410b
32	3194	1.2	-15 27	9.2	9.5	Fo	4	..	41220b	82	6677	1.5	-45 37	8.5	8.6	Ao	3	..	9376b
33	3234	1.2	-21 34	8.9	8.9	F5	6	..	40450b	83	5682	1.5	-50 52	10.2	9.7	A5	2	..	38416b
34	3079	1.2	-22 42	9.6	9.4	Ko	3	..	40450b	84	5683	1.5	-51 5	10.9	9.7	Ao	2	..	38416b
35	7858	1.2	-27 17	9.1	9.3	F5	3	..	11310b	85	4201	1.5	-52 25	9.4	10.5	K2	2	..	37600b
36	7202	1.2	-35 1	8.78	9.9	K2	1	..	41410b	86	4239	1.5	-58 4	9.7	9.7	Ao	1	..	40090b
37	6926	1.2	-39 0	8.9	8.9	Ao	4	..	41327b	87	3073	1.5	-58 11	9.1	9.1	Ao	3	..	40090b
38	6734	1.2	-46 54	7.02	7.6	Ao	..	0,8	56,129	88	3075	1.5	-58 18	8.3	8.3	B8	4	..	40090b
39	4190	1.2	-56 30	9.6	10.0	F5	4	..	37600b	89	3076	1.5	-58 25	10.2	10.3	A2	1	..	40090b
40	4229	1.2	-57 43	9.0	10.0	K	1	..	40090b	90	416	1.6	+76 24	9.0	9.8	G5	2	R	37465i
41	4232	1.2	-58 0	10.0	10.0	Ao	3	..	40090b	91	515	1.6	+72 28	6.87	7.15	Fo	7	..	37554i
42	414	1.3	+76 40	9.1	10.1	Ko	2	5,1	38333i	92	648	1.6	+70 9	10.0	11.0	Ko	1	..	37554i
43	2234	1.3	+31 28	9.2	9.5	Fo	3	..	37572i	93	2175	1.6	+26 17	8.4	9.2	G5	2	..	37505i
44	2289	1.3	+15 34	9.0	10.1	K2	3	..	4905m	94	2313	1.6	+22 5	8.9	9.9	Ko	2	..	37504i
45	2288	1.3	+14 49	9.29	10.29	Ko	4	..	4905m	95	2282	1.6	+21 1	7.52	8.52	Ko	6	..	37504i
46	2354	1.3	+13 15	8.1	9.1	Ko	4	0,7	38319i	96	2560	1.6	+20 15	9.2	10.2	Ko	2	..	37504i
47	3235	1.3	-21 56	8.8	10.0	K5	2	..	40450b	97	2341	1.6	+14 27	9.0	9.8	G5	4	..	4905m
48	6327	1.3	-41 22	7.6	8.0	A2	3	2,7	43044b	98	2458	1.6	+ 8 40	9.0	9.1	A2	4	..	21675b
49	5826	1.3	-49 25	9.6	9.4	A3	3	..	38416b	99	2458	1.6	+ 3 25	8.9	9.0	A2	4	..	13370b
50	5314	1.3	-51 21	9.2	10.5	Ma	2	..	37600b	100	3348	1.6	-12 27	6.52	6.86	F2	10	..	19140b

96400

11^h 1^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3300	m. 1.6	° -14 13	8.7	9.1	F5	6	..	19140b	51	771	m. 1.8	° -74 37	7.10	6.6	Ao	9	..	40298b
2	3197	1.6	-15 18	8.96	9.96	Ko	2	..	41220b	52	1465	1.9	+53 35	8.9	9.0	A3	2	..	37717i
3	3347	1.6	-20 38	7.22	7.3	Ao	8	..	41220b	53	2018	1.9	+49 43	9.32	10.50	K5	2	E	38308i
4	3346	1.6	-21 7	9.2	9.5	F8	3	..	41220b	54	2019	1.9	+49 33	8.3	8.4	A5	3	E	38308i
5	6739	1.6	-47 6	9.1	9.5	Go	4	..	38416b	55	2020	1.9	+49 21	8.9	9.0	A5	3	..	38308i
6	6497	1.6	-47 8	8.4	9.5	G5	4	..	38416b	56	2423	1.9	+39 29	8.9	9.9	Ko	1	..	38658i
7	5686	1.6	-50 40	6.36	7.9	G5	..	0,10	56,129	57	2211	1.9	+35 23	8.9	9.4	F8	3	..	37572i
8	5319	1.6	-51 24	10.2	10.8	Ko	1	..	37600b	58	2212	1.9	+15 51	9.5	10.3	G5	3	0,1	4905m
9	5318	1.6	-51 49	10.5	10.2	F8	3	..	37600b	59	2356	1.9	+13 41	9.7	10.2	F8	3	..	4905m
10	4203	1.6	-53 4	10.2	10.2	Ao	3	..	37600b	60	2248	1.9	+10 9	9.0	10.0	Ko	1	..	38319i
11	4197	1.6	-57 7	9.7	10.0	F2	3	..	37600b	61	3014	1.9	- 5 3	9.1	9.9	G5	1	..	19138b
12	4243	1.6	-57 57	10.0	10.0	A	1	..	40090b	62	3201	1.9	- 6 0	9.6	10.0	F5	2	..	19138b
13	4247	1.6	-58 0	9.3	9.4	A2	4	..	40090b	63	3026	1.9	-11 19	9.8	10.4	Go	1	..	19140b
14	3079	1.6	-58 17	8.9	8.9	B8	3	..	40090b	64	3237	1.9	-21 50	9.1	9.2	Fo	5	..	40450b
15	3036	1.6	-59 26	9.1	8.9	B9	2	..	40090b	65	8454	1.9	-25 48	10.1	11.0	K5	1	..	40450b
16	799	1.6	-73 31	9.1	10.3	K5	1	..	40298b	66	7035	1.9	-37 32	9.6	9.3	F2	2	..	41327b
17	522	1.6	-81 5	8.21	8.5	G5	5	..	13466b	67	5834	1.9	-49 34	10.0	9.1	Fo	4	..	38416b
18	2176	1.7	+26 4	6.73	7.15	F5	7	..	37505i	68	5691	1.9	-51 4	8.2	8.8	Ko	4	..	38416b
19	2413	1.7	+ 7 14	8.1	9.2	K2	7	..	21675b	69	5323	1.9	-51 41	10.5	10.8	F5	2	..	37600b
20	3176	1.7	-20 10	8.38	9.2	Ko	4	..	41220b	70	4211	1.9	-53 4	8.7	8.4	Ao	5	..	37662b
21	9525	1.7	-24 41	10.1	11.0	G5	1	..	40450b	71	4132	1.9	-55 56	9.4	9.4	B8	4	..	37662b
22	7499	1.7	-33 13	8.7	8.8	F8	5	..	41375b	72	4257	1.9	-58 6	9.0	9.1	A2	5	..	40090b
23	6788	1.7	-43 50	7.6	7.7	G5	3	..	43044b	73	3097	1.9	-58 21	8.4	8.3	B5	6	..	40090b
24	6740	1.7	-46 17	10.0	9.2	Ao	2	..	9376b	74	3096	1.9	-58 42	7.9	7.7	B8	7	..	40090b
25	6500	1.7	-47 14	9.6	10.1	G5	2	..	38416b	75	1297	1.9	-70 20	8.2	8.2	Ao	6	..	40075b
26	6174	1.7	-48 57	9.8	9.4	Ao	3	..	38416b	76	2107	2.0	+30 3	9.6	10.2	G	2	..	37572i
27	4309	1.7	-54 51	9.2	10.0	G5	3	..	37662b	77	2291	2.0	+15 33	9.3	10.3	Ko	4	0,2	4905m
28	4130	1.7	-55 13	9.36	9.4	Ao	3	..	37662b	78	2311	2.0	+11 27	9.3	10.3	Ko	2	..	38319i
29	4199	1.7	-56 12	9.3	10.3	Ko	2	..	37600b	79	2250	2.0	+10 44	7.29	7.79	F8	7	..	38319i
30	4253	1.7	-58 7	8.6	8.5	A	6	R	40090b	80	3202	2.0	- 5 44	10.5	11.1	Go	1	..	19138b
31	3083	1.7	-58 47	8.9	8.8	B9	4	..	40090b	81	3196	2.0	-10 47	10.0	10.6	Go	1	..	19140b
32	1644	1.7	-67 22	9.0	9.0	B9	4	..	40075b	82	3199	2.0	-15 58	9.8	10.6	G5	1	..	46201b
33	2156	1.8	+37 8	8.4	9.2	G5	2	..	38658i	83	3080	2.0	-23 1	7.9	8.2	A5	9	..	40450b
34	2283	1.8	+21 39	8.6	8.9	Fo	4	..	37504i	84	5693	2.0	-50 25	6.33	7.9	K2	..	2,10	56,129
35	2342	1.8	+14 29	10.3	11.3	Ko	1	..	4905m	85	4214	2.0	-52 49	9.6	9.6	B9	4	..	37600b
36	2387	1.8	+ 2 30	5.66	6.44	G5	9	R	13370b	86	4343	2.0	-53 54	9.6	10.6	Ko	2	..	37600b
37	3287	1.8	- 2 56	9.1	9.6	F8	1	..	19228b	87	4134	2.0	-55 22	8.3	8.8	A5	4	..	37662b
38	3304	1.8	-13 25	9.1	9.2	A5	4	..	19140b	88	4260	2.0	-57 47	9.9	10.0	A2	3	..	40090b
39	3260	1.8	-14 36	9.6	9.7	A5	3	..	41220b	89	3103	2.0	-58 18	8.0	8.0	B8	6	..	40090b
40	3261	1.8	-14 58	9.6	10.8	K5	1	..	46201b	90	3098	2.0	-58 30	10.2	10.3	A2	1	..	40090b
41	8657	1.8	-28 11	6.53	7.5	Ao	7	..	11310b	91	3042	2.0	-60 6	9.38	9.4	B9	2	..	40090b
42	5831	1.8	-49 54	6.92	8.4	K5	6	..	38416b	92	2522	2.0	-60 31	8.3	8.2	B8	5	..	38834b
43	5322	1.8	-51 34	9.8	10.1	Ko	3	..	37600b	93	2520	2.0	-60 42	9.1	8.5	Ao	4	..	38834b
44	4310	1.8	-54 40	9.0	10.0	Ko	2	..	37662b	94	613	2.0	-78 20	8.8	9.8	Ko	2	..	21530b
45	3090	1.8	-58 11	8.9	8.8	G	3	..	40090b	95	516	2.1	+72 34	8.3	8.6	F2	5	..	37554i
46	3038	1.8	-59 24	6.9	6.8	B3p	6	0,9 R	43205b	96	2157	2.1	+37 19	8.0	9.1	K2	4	..	38658i
47	2517	1.8	-60 38	8.9	8.6	B	3	..	38798b	97	2316	2.1	+22 35	7.9	8.5	Go	5	..	37504i
48	1628	1.8	-64 59	9.6	9.6	B9	2	..	38798b	98	2213	2.1	+16 34	10.7	11.3	Go	1	..	4905m
49	1529	1.8	-66 24	9.8	9.8	A	1	..	40075b	99	2460	2.1	+ 8 4	9.7	10.7	Ko	2	..	21675b
50	1096	1.8	-72 42	9.3	10.4	K2	1	..	39198b	100	3203	2.1	- 5 35	9.6	10.4	G5	2	..	19138b

THE HENRY DRAPER CATALOGUE.

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11^h 2^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3027	m. 2.1	° -11 25	8.8	9.8	Ko	3	..	19140b	51	2486	m. 2.4	° -1 39	8.4	9.2	G5	4	..	22977b
2	3262	2.1	-15 1	8.5	9.7	K5	3	..	41220b	52	3175	2.4	-7 49	9.3	10.5	K5	1	..	19138b
3	9745	2.1	-23 36	8.1	8.8	Ko	8	..	40450b	53	3263	2.4	-14 50	8.3	8.9	Go	8	..	41220b
4	8865	2.1	-30 1	6.61	7.4	Ko	7	..	11310b	54	3201	2.4	-15 42	9.8	9.8	Ao	2	..	41220b
5	6792	2.1	-43 31	8.2	8.3	Go	5	..	9376b	55	3304	2.4	-17 16	8.7	9.9	K5	2	..	41220b
6	6751	2.1	-47 8	9.2	10.3	Ko	2	..	38416b	56	3238	2.4	-22 8	10.0	10.9	Ko	1	..	40450b
7	4217	2.1	-52 44	7.4	7.9	B8	7	..	37662b	57	8776	2.4	-32 3	6.56	7.2	F5	9	..	41410b
8	4205	2.1	-56 40	10.0	10.0	B8	3	..	37600b	58	6938	2.4	-39 3	9.2	9.5	F5	1	..	41327b
9	4264	2.1	-57 53	9.9	10.0	A2	2	..	40090b	59	6757	2.4	-46 45	9.4	10.0	K2	3	..	38416b
10	614	2.1	-78 37	9.3	9.4	A2	3	..	21530b	60	4222	2.4	-52 45	8.7	9.3	G5	2	..	37662b
11	325	2.2	+82 17	7.06	7.62	Go	6	..	37465i	61	4213	2.4	-56 14	9.7	9.7	B8	3	..	37662b
12	2284	2.2	+21 42	7.18	7.24	A2	8	..	37504i	62	4212	2.4	-56 27	9.7	9.7	B9	2	..	37662b
13	2420	2.2	+19 14	8.5	9.5	Ko	3	..	37504i	63	4210	2.4	-56 52	10.3	10.3	Ao	2	..	37600b
14	2358	2.2	+13 33	7.62	8.62	Ko	4	0,8	38319i	64	3120	2.4	-58 12	8.9	7.5	Ao	5	..	40090b
15	3207	2.2	-9 31	8.1	9.1	Ko	7	..	19138b	65	3123	2.4	-58 19	9.1	9.1	A	2	..	40090b
16	3349	2.2	-13 8	8.7	9.8	K2	4	..	19140b	66	2067	2.4	-61 53	4.76	6.2	Ko	..	0,6 R	28,205
17	6335	2.2	-41 57	8.6	9.5	K5	1	..	9376b	67	1885	2.4	-62 21	8.8	9.2	F5	2	..	38834b
18	6753	2.2	-46 49	8.6	9.0	Ko	5	..	38416b	68	1630	2.4	-64 18	6.40	6.6	A2	..	0,9	56,129
19	4344	2.2	-53 11	8.9	9.4	F8	3	..	37662b	69	1430	2.4	-68 14	7.3	8.5	K5	5	..	40075b
20	4137	2.2	-55 42	9.6	10.2	Go	4	..	37600b	70	1198	2.4	-72 8	7.7	8.0	F2	7	..	40298b
21	4269	2.2	-57 25	8.6	8.8	A2	4	..	21695b	71	161	2.5	+86 11	7.17	7.23	A2	7	3,10	38332i
22	4272	2.2	-57 59	9.4	9.4	Ao	5	..	40090b	72	375	2.5	+78 19	7.38	8.73	Ma	5	..	37465i
23	3108	2.2	-59 6	9.1	9.1	B9	2	..	40090b	73	2317	2.5	+22 35	8.6	8.9	F2	4	..	37504i
24	1646	2.2	-67 30	9.2	9.3	A5	1	..	40075b	74	2345	2.5	+14 23	7.44	7.86	F5	6	0,9	38319i
25	1298	2.2	-70 32	7.7	7.7	B9	5	..	40075b	75	2416	2.5	+7 3	10.0	10.6	Go	1	..	21675b
26	1443	2.3	+55 41	9.1	9.7	Go	1	..	37716i	76	3052	2.5	-4 7	9.1	10.3	K5	1	..	19228b
27	1466	2.3	+53 21	7.34	7.76	F5	6	..	37717i	77	3310	2.5	-6 17	8.5	9.5	Ko	6	..	19138b
28	2318	2.3	+23 52	6.39	6.45	A2	9	..	37504i	78	3199	2.5	-10 25	9.3	10.1	G5	2	..	19140b
29	2285	2.3	+20 48	8.6	9.4	G5	3	..	37504i	79	8464	2.5	-25 23	10.6	9.8	A5	3	..	40450b
30	2214	2.3	+16 33	10.7	11.7	Ko	1	..	4905m	80	7892	2.5	-33 1	7.81	8.9	K5	4	..	41375b
31	2404	2.3	+6 24	8.7	9.8	K2	3	..	21675b	81	6758	2.5	-46 37	10.0	9.6	A2	4	..	38416b
32	3174	2.3	-8 4	8.7	9.7	Ko	4	..	19138b	82	4349	2.5	-53 58	10.0	10.0	Ao	2	..	37662b
33	3303	2.3	-17 50	9.3	9.9	Go	1	..	46201b	83	4215	2.5	-56 38	9.4	10.0	Go	3	..	37600b
34	8460	2.3	-25 33	11.3	10.1	G5	2	..	40450b	84	4279	2.5	-58 3	8.9	10.0	K2	2	..	40090b
35	6978	2.3	-35 20	9.0	9.3	Fo	2	..	41410b	85	3124	2.5	-58 32	8.8	8.9	A2	3	..	40090b
36	6337	2.3	-41 40	8.9	9.0	Ko	2	..	9376b	86	3045	2.5	-59 10	8.9	8.9	Ao	3	..	40090b
37	6793	2.3	-43 30	9.1	9.3	A3	2	..	9376b	87	3046	2.5	-59 42	9.1	9.5	Ao	2	0,2	40090b
38	4219	2.3	-52 24	7.2	8.7	Ko	4	..	37662b	88	2068	2.5	-61 19	8.1	7.9	B5	5	..	38834b
39	4221	2.3	-53 6	9.0	9.9	G5	3	..	37662b	89	362	2.6	+81 29	8.4	9.0	Go	5	..	37465i
40	4347	2.3	-53 29	9.7	10.3	Go	4	..	37600b	90	424	2.6	+77 35	9.8	10.8	Ko	1	..	38333i
41	4348	2.3	-53 42	9.3	10.3	Ko	1	..	37662b	91	683	2.6	+67 44	9.2	10.2	Ko	2	..	37554i
42	4346	2.3	-53 50	10.0	10.3	F2	2	..	37662b	92	2308	2.6	+23 31	8.2	9.3	K2	3	..	37504i
43	4209	2.3	-56 41	10.2	10.2	Ao	2	..	37600b	93	2316	2.6	+17 25	8.6	9.2	Go	2	..	37504i
44	3112	2.3	-58 7	6.07	8.2	Ko	..	0,6	28,205	94	3200	2.6	-10 21	9.8	10.3	F8	2	..	19140b
45	3113	2.3	-58 31	9.9	9.9	Ao	2	..	40090b	95	3029	2.6	-11 18	9.8	10.8	Ko	1	..	19140b
46	3116	2.3	-59 2	8.9	9.4	Ao	2	..	40090b	96	3240	2.6	-21 26	9.8	9.7	G5	4	..	40450b
47	2066	2.3	-61 8	9.0	8.8	Ao	2	..	38834b	97	3239	2.6	-21 33	10.6	10.9	K5	1	..	40450b
48	1629	2.3	-64 58	7.75	8.2	Oc	6	..	38834b	98	3081	2.6	-22 52	8.9	8.9	Ao	5	..	40450b
49	2286	2.4	+20 57	9.2	10.0	G5	2	..	37504i	99	7873	2.6	-27 57	7.49	8.6	Ko	4	..	11310b
50	2344	2.4	+14 2	7.98	8.40	F5	4	0,8	38319i	100	6522	2.6	-40 55	8.2	8.0	A2	2	1,7	43044b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

96600

11^h 2^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6697	2.6	-45 45	8.4	9.6	Ko	1	..	9376b	51	4295	2.9	-57 51	9.4	9.4	Ao	5	..	4009ob
2	5339	2.6	-51 23	9.1	9.4	F5	6	..	3760ob	52	4296	2.9	-57 59	9.3	9.4	A2	3	..	4009ob
3	4350	2.6	-53 42	10.3	10.3	Ao	3	..	3760ob	53	3144	2.9	-58 10	8.2	8.2	B9	5	..	4009ob
4	4351	2.6	-54 6	9.4	10.4	Ko	2	..	3760ob	54	3054	2.9	-60 8	8.93	8.6	B9	3	..	4009ob
5	4141	2.6	-55 48	9.9	10.3	F5	2	..	3760ob	55	1889	2.9	-62 34	8.1	9.5	Ma	2	..	38834b
6	4219	2.6	-56 25	9.2	9.5	Fo	3	..	37662b	56	1351	3.0	+59 45	7.31	8.31	G5	5	5.5	37716i
7	4286	2.6	-57 15	10.0	10.0	Ao	3	..	3760ob	57	2109	3.0	+29 50	9.51	10.29	G5	2	..	37572i
8	4284	2.6	-57 47	10.2	10.2	Ao	2	..	4009ob	58	2417	3.0	+7 6	8.7	9.2	F8	7	..	21675b
9	3131	2.6	-58 10	8.5	8.5	B9	3	..	4009ob	59	6702	3.0	-45 18	8.3	8.7	A2	5	..	9376b
10	3128	2.6	-58 12	8.4	8.5	A2	3	..	4009ob	60	6525	3.0	-48 6	6.51	8.1	Ko	8	..	38416b
11	517	2.7	+72 1	9.2	9.6	F5	4	..	37554i	61	4231	3.0	-53 4	9.1	10.2	K2	2	..	37662b
12	2424	2.7	+38 57	8.4	9.4	Ko	2	..	38658i	62	4357	3.0	-53 14	9.9	10.0	A2	2	..	37662b
13	2318	2.7	+21 54	10.0	10.6	G	1	..	37504i	63	4358	3.0	-53 20	8.6	10.0	Mb	2	..	37662b
14	3030	2.7	-12 3	8.3	9.7	Ma	4	..	1914ob	64	4325	3.0	-54 45	8.6	9.5	Ko	3	..	37662b
15	7512	2.7	-33 36	8.9	9.7	Ko	1	..	4141ob	65	4221	3.0	-56 43	8.8	9.4	Ko	3	..	37662b
16	6343	2.7	-42 6	5.34	5.40	A2p	..	R	56,129	66	4298	3.0	-57 44	9.6	9.7	A2	3	..	4009ob
17	4321	2.7	-54 31	8.9	9.9	Ko	2	..	37662b	67	3145	3.0	-58 16	9.4	9.4	A	2	..	4009ob
18	4287	2.7	-57 42	8.4	8.5	Ao	7	..	4009ob	68	3147	3.0	-58 22	8.2	8.2	Ao	7	..	4009ob
19	4290	2.7	-57 56	10.0	10.0	Ao	1	..	4009ob	69	3059	3.0	-59 17	8.8	8.3	B	3	..	4009ob
20	3132	2.7	-58 15	8.9	7.1	B9	8	..	4009ob	70	3057	3.0	-59 20	7.6	7.5	Bo	6	..	4303ob
21	3135	2.7	-58 52	9.9	10.0	A2	2	..	4009ob	71	3056	3.0	-59 45	8.5	8.5	B9	4	..	4009ob
22	3140	2.7	-59 8	8.9	8.6	B8	2	..	4009ob	72	3060	3.0	-59 55	8.7	9.1	F5	3	..	38798b
23	1099	2.7	-72 18	8.5	8.6	A2	4	..	40298b	73	2534	3.0	-61 3	9.2	10.3	K2	1	..	38798b
24	1468	2.8	+53 10	9.2	9.8	G	2	..	37717i	74	2069	3.0	-61 38	9.7	9.7	B9	1	..	38798b
25	2211	2.8	+38 31	9.2	10.0	G5	1	..	38658i	75	711	3.0	-75 35	8.0	8.0	B9	6	..	40298b
26	2158	2.8	+37 0	8.2	8.8	Go	4	..	38658i	76	944	3.1	+63 3	8.6	8.7	A2	4	..	37716i
27	2405	2.8	-0 24	8.53	9.53	Ko	3	..	22977b	77	2157	3.1	+36 31	7.30	8.30	Ko	5	5.7	38658i
28	3213	2.8	-9 37	9.2	10.2	Ko	3	..	19138b	78	2212	3.1	+35 15	8.3	8.7	F5	4	..	37572i
29	3308	2.8	-14 6	9.3	9.4	A5	5	..	1914ob	79	2288	3.1	+21 34	8.0	8.4	F5	5	..	37504i
30	6745	2.8	-42 56	9.6	9.3	A2	2	..	9376b	80	2450	3.1	+5 0	7.9	8.3	F5	6	..	1337ob
31	6519	2.8	-47 28	10.0	10.0	F5	2	..	38416b	81	2423	3.1	+4 4	7.6	7.7	A2	7	..	1337ob
32	6521	2.8	-47 42	8.5	8.7	A2	6	..	38416b	82	2462	3.1	+3 43	9.5	10.7	K5	2	..	21675b
33	6186	2.8	-48 16	9.6	10.5	K2	1	..	38416b	83	9752	3.1	-23 19	8.4	9.1	Ko	7	..	4045ob
34	5343	2.8	-52 4	10.8	10.8	Ao	2	..	3760ob	84	5846	3.1	-49 24	9.4	8.8	Ao	5	..	38416b
35	..	2.8	-53 54	..	..	Mb	1	..	3760ob	85	3150	3.1	-58 10	9.7	9.7	B8	2	..	4009ob
36	4293	2.8	-57 55	9.4	9.4	Ao	4	..	4009ob	86	3153	3.1	-58 26	10.2	10.3	A2	1	..	4009ob
37	4291	2.8	-58 6	9.9	10.0	A2	1	..	4009ob	87	1220	3.2	+60 45	8.8	9.8	Ko	3	..	37716i
38	3052	2.8	-59 15	8.4	8.8	B2	2	..	4009ob	88	1303	3.2	+58 10	8.2	9.2	Ko	2	..	37717i
39	1623	2.8	-65 28	8.5	9.3	G5	3	..	38798b	89	1421	3.2	+54 41	8.16	8.72	Go	4	..	37717i
40	2561	2.9	+20 28	9.7	10.5	G5	2	..	37504i	90	2200	3.2	+34 24	8.7	9.3	Go	3	..	37572i
41	2452	2.9	+9 35	8.4	8.8	F5	5	..	38319i	91	2289	3.2	+21 37	8.2	8.8	Go	3	..	37504i
42	3203	2.9	-15 30	8.9	10.1	K5	1	..	4122ob	92	2216	3.2	+16 18	9.5	10.5	Ko	2	..	4905m
43	3350	2.9	-20 17	9.18	10.0	Ko	3	0,2	4045ob	93	2462	3.2	+8 10	8.0	9.0	Ko	4	..	21675b
44	9751	2.9	-23 16	10.6	9.8	F5	2	..	4045ob	94	2488	3.2	-1 22	6.86	7.86	Ko	9	..	22977b
45	6913	2.9	-39 40	9.3	9.2	Ao	2	..	9377b	95	3053	3.2	-3 22	8.3	9.5	K5	2	..	19228b
46	5841	2.9	-50 8	10.2	10.1	F8	2	..	38416b	96	3352	3.2	-20 59	7.7	8.6	Ko	8	..	4045ob
47	4229	2.9	-52 42	9.6	10.2	Go	1	..	3760ob	97	3241	3.2	-22 1	9.1	9.4	F2	4	..	4045ob
48	4356	2.9	-53 40	9.8	10.3	F8	2	..	3760ob	98	3084	3.2	-22 18	9.1	9.4	K2	3	..	4045ob
49	4324	2.9	-54 8	10.2	10.3	A5	3	..	3760ob	99	9753	3.2	-24 3	10.4	10.0	G5	1	..	4045ob
50	..	2.9	-54 35	var.	var.	Nb	1	R	3760ob	100	8875	3.2	-29 38	6.53	7.6	Go	9	..	1131ob

THE HENRY DRAPER CATALOGUE.

96700

11^h 3^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7043	3.2	-37 52	7.42	8.7	K2	4	..	41327b	51	5724	3.5	-50 35	10.5	9.8	G5	1	..	38416b
2	4359	3.2	-53 16	9.5	10.3	G5	3	..	37600b	52	4331	3.5	-54 12	9.5	9.5	B8	3	..	37662b
3	3155	3.2	-58 33	9.1	9.4	A0	2	..	40090b	53	4149	3.5	-55 16	9.70	10.0	G5	4	..	37600b
4	2071	3.2	-61 26	8.4	9.4	K5	1	..	38834b	54	4312	3.5	-57 58	9.4	9.5	A2	4	..	40090b
5	1304	3.2	-70 17	7.16	7.9	F2	6	..	40075b	55	3161	3.5	-58 13	8.2	8.2	A0	7	..	40090b
6	1305	3.2	-70 20	5.80	5.63	B3	..	..	56,129	56	3163	3.5	-59 8	7.2	8.5	K0	4	..	40090b
7	632	3.3	+67 45	6.09	6.23	A5	9	..	37554i	57	684	3.6	+67 17	8.2	8.5	F0	4	..	37554i
8	1304	3.3	+58 24	7.21	7.99	G5	5	..	37717i	58	834	3.6	+63 51	7.87	8.29	F5	5	..	37716i
9	1422	3.3	+54 12	8.8	9.6	G5	2	..	37717i	59	945	3.6	+63 31	8.0	8.8	G5	4	..	37716i
10	2463	3.3	+3 45	8.1	9.1	K0	5	..	13370b	60	2292	3.6	+20 48	8.6	10.0	Mb	3	..	37504i
11	2407	3.3	-0 18	7.73	9.08	Ma	5	..	22977b	61	2219	3.6	+16 17	10.0	11.2	K5	2	..	4905m
12	3206	3.3	-15 26	7.90	8.32	F5	6	..	41220b	62	2451	3.6	+5 33	8.5	8.8	F0	3	..	13370b
13	4360	3.3	-53 31	8.5	8.9	B9	5	..	37662b	63	3037	3.6	-11 28	8.9	9.2	F0	4	..	19140b
14	4306	3.3	-57 56	9.5	9.5	A0	3	..	40090b	64	3351	3.6	-12 21	9.6	9.9	F2	2	..	19140b
15	3064	3.3	-59 25	8.2	8.3	B	4	..	40090b	65	3266	3.6	-15 1	8.8	9.6	G5	5	..	41220b
16	2539	3.3	-60 50	8.0	8.2	B5	5	..	38834b	66	3353	3.6	-20 15	8.93	9.7	Ma	3	..	40450b
17	1503	3.4	+56 15	8.7	9.7	K0	2	..	37716i	67	3085	3.6	-22 21	10.0	9.5	A5	3	..	40450b
18	2421	3.4	+19 13	8.9	9.3	F5	3	..	37504i	68	9755	3.6	-24 0	9.3	9.7	K0	3	..	40450b
19	2318	3.4	+17 45	6.86	7.64	G5	5	..	37504i	69	6537	3.6	-47 38	10.9	10.5	K0	1	..	38416b
20	2489	3.4	-1 32	8.3	9.4	K2	6	..	22977b	70	4239	3.6	-52 16	8.2	9.4	Ma	5	..	37600b
21	3035	3.4	-11 55	9.3	9.9	Go	1	..	19140b	71	4318	3.6	-57 45	9.8	9.9	A2	3	0,1	40090b
22	8367	3.4	-26 35	8.3	10.1	K2	1	..	40450b	72	4315	3.6	-57 56	9.5	9.5	A0	3	..	40090b
23	8877	3.4	-29 26	6.38	7.0	A0	10	..	11310b	73	3170	3.6	-58 17	9.7	9.7	A0	3	..	40090b
24	6533	3.4	-40 24	8.2	8.9	K2	2	..	9377b	74	3168	3.6	-58 24	9.4	9.4	A0	2	..	40090b
25	6748	3.4	-42 32	8.9	9.0	Go	2	..	9376b	75	2072	3.6	-61 34	9.9	9.7	B	1	..	38798b
26	6530	3.4	-47 58	10.9	10.0	F5	2	..	38416b	76	1839	3.6	-63 54	9.9	9.9	A0	1	..	38798b
27	5850	3.4	-50 0	8.57	9.4	K0	3	..	38416b	77	1840	3.6	-63 58	9.6	9.6	A0	2	..	38798b
28	4148	3.4	-56 7	8.4	8.6	B9	6	..	37662b	78	2111	3.7	+30 35	7.18	7.96	G5	8	..	37572i
29	3157	3.4	-58 8	9.7	9.7	B9	2	..	40090b	79	2220	3.7	+16 21	10.3	11.3	K0	1	..	4905m
30	3160	3.4	-58 15	9.7	9.7	A	1	..	40090b	80	2294	3.7	+15 44	7.9	8.4	F8	6	2,2	4905m
31	3159	3.4	-58 36	9.1	8.5	B9	4	..	40090b	81	2347	3.7	+13 53	10.7	10.7	A0	3	..	4905m
32	3158	3.4	-58 40	10.0	10.0	A	1	..	40090b	82	3201	3.7	-10 39	9.1	9.5	F5	4	..	19140b
33	1894	3.4	-62 52	9.3	9.3	B9	2	..	38798b	83	3268	3.7	-14 59	9.6	10.1	F8	3	..	41220b
34	1541	3.5	+51 55	7.12	8.47	Ma	7	..	37717i	84	3242	3.7	-21 38	8.5	9.5	K2	3	..	40450b
35	2213	3.5	+34 51	8.92	9.42	F8	3	..	37572i	85	7518	3.7	-33 14	8.2	9.1	K0	3	..	41410b
36	2110	3.5	+30 2	9.2	9.5	F0	3	..	37572i	86	6777	3.7	-46 24	9.8	9.6	K0	4	..	38416b
37	1971	3.5	+28 31	8.6	9.1	F8	3	..	37505i	87	5854	3.7	-49 34	10.5	10.2	A3	1	..	38416b
38	2344	3.5	+25 12	5.63	5.69	A2	9	..	37505i	88	4230	3.7	-56 15	9.9	9.9	B8	4	..	37600b
39	2310	3.5	+23 27	9.2	9.7	F8	2	0,1	37504i	89	4320	3.7	-57 45	7.9	8.8	K0	6	0,7	21695b
40	2562	3.5	+20 20	9.6	10.2	Go	2	..	37504i	90	4319	3.7	-58 6	10.1	9.9	B	2	..	40090b
41	2319	3.5	+17 20	9.0	9.8	G5	1	..	37504i	91	3172	3.7	-58 31	10.3	10.3	A	1	..	40090b
42	2750	3.5	-0 2	8.0	9.1	K2	4	..	22977b	92	1222	3.8	+61 39	9.5	10.3	G5	1	..	37716i
43	3211	3.5	-5 53	9.1	10.3	K5	4	..	19138b	93	1223	3.8	+61 18	7.77	8.55	G5	6	..	37716i
44	3180	3.5	-7 37	9.6	10.4	G5	1	..	19138b	94	2348	3.8	+14 12	10.3	11.4	K2	1	..	4905m
45	3307	3.5	-17 35	8.8	9.1	F0	3	..	41220b	95	2452	3.8	+5 36	9.3	10.4	K2	1	..	21675b
46	8790	3.5	-31 33	9.1	9.5	G5	1	..	41410b	96	2490	3.8	-2 11	8.47	9.54	K2	3	..	22977b
47	8791	3.5	-32 7	8.3	7.4	A0	6	..	41410b	97	3213	3.8	-5 36	9.6	10.2	Go	2	..	19138b
48	7515	3.5	-33 46	8.9	8.8	A0	4	..	41410b	98	3309	3.8	-17 19	10.2	11.0	G5	1	..	41220b
49	6351	3.5	-41 51	8.0	8.7	K0	4	..	9376b	99	3109	3.8	-18 40	9.3	9.9	Go	1	..	41220b
50	6774	3.5	-46 39	9.6	10.0	K0	3	..	38416b	100	3183	3.8	-19 31	8.1	9.1	G5	4	..	41220b

96600

11^h 2^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6697	2.6	-45 45	8.4	9.6	Ko	1	..	9376b	51	4295	2.9	-57 51	9.4	9.4	Ao	5	..	4009ob
2	5339	2.6	-51 23	9.1	9.4	F5	6	..	3760ob	52	4296	2.9	-57 59	9.3	9.4	A2	3	..	4009ob
3	4350	2.6	-53 42	10.3	10.3	Ao	3	..	3760ob	53	3144	2.9	-58 10	8.2	8.2	B9	5	..	4009ob
4	4351	2.6	-54 6	9.4	10.4	Ko	2	..	3760ob	54	3054	2.9	-60 8	8.93	8.6	B9	3	..	4009ob
5	4141	2.6	-55 48	9.9	10.3	F5	2	..	3760ob	55	1889	2.9	-62 34	8.1	9.5	Ma	2	..	38834b
6	4219	2.6	-56 25	9.2	9.5	Fo	3	..	37662b	56	1351	3.0	+59 45	7.31	8.31	G5	5	5.5	37716i
7	4286	2.6	-57 15	10.0	10.0	Ao	3	..	3760ob	57	2109	3.0	+29 50	9.51	10.29	G5	2	..	37572i
8	4284	2.6	-57 47	10.2	10.2	Ao	2	..	4009ob	58	2417	3.0	+7 6	8.7	9.2	F8	7	..	21675b
9	3131	2.6	-58 10	8.5	8.5	B9	3	..	4009ob	59	6702	3.0	-45 18	8.3	8.7	A2	5	..	9376b
10	3128	2.6	-58 12	8.4	8.5	A2	3	..	4009ob	60	6525	3.0	-48 6	6.51	8.1	Ko	8	..	38416b
11	517	2.7	+72 1	9.2	9.6	F5	4	..	37554i	61	4231	3.0	-53 4	9.1	10.2	K2	2	..	37662b
12	2424	2.7	+38 57	8.4	9.4	Ko	2	..	38658i	62	4357	3.0	-53 14	9.9	10.0	A2	2	..	37662b
13	2318	2.7	+21 54	10.0	10.6	G	1	..	37504i	63	4358	3.0	-53 20	8.6	10.0	Mb	2	..	37662b
14	3030	2.7	-12 3	8.3	9.7	Ma	4	..	1914ob	64	4325	3.0	-54 45	8.6	9.5	Ko	3	..	37662b
15	7512	2.7	-33 36	8.9	9.7	Ko	1	..	4141ob	65	4221	3.0	-56 43	8.8	9.4	Ko	3	..	37662b
16	6343	2.7	-42 6	5.34	5.40	A2p	..	R	56,129	66	4298	3.0	-57 44	9.6	9.7	A2	3	..	4009ob
17	4321	2.7	-54 31	8.9	9.9	Ko	2	..	37662b	67	3145	3.0	-58 16	9.4	9.4	A	2	..	4009ob
18	4287	2.7	-57 42	8.4	8.5	Ao	7	..	4009ob	68	3147	3.0	-58 22	8.2	8.2	Ao	7	..	4009ob
19	4290	2.7	-57 56	10.0	10.0	Ao	1	..	4009ob	69	3059	3.0	-59 17	8.8	8.3	B	3	..	4009ob
20	3132	2.7	-58 15	8.9	7.1	B9	8	..	4009ob	70	3057	3.0	-59 20	7.6	7.5	Bo	6	..	4303ob
21	3135	2.7	-58 52	9.9	10.0	A2	2	..	4009ob	71	3056	3.0	-59 45	8.5	8.5	B9	4	..	4009ob
22	3140	2.7	-59 8	8.9	8.6	B8	2	..	4009ob	72	3060	3.0	-59 55	8.7	9.1	F5	3	..	38798b
23	1099	2.7	-72 18	8.5	8.6	A2	4	..	40298b	73	2534	3.0	-61 3	9.2	10.3	K2	1	..	38798b
24	1468	2.8	+53 10	9.2	9.8	G	2	..	37717i	74	2069	3.0	-61 38	9.7	9.7	B9	1	..	38798b
25	2211	2.8	+38 31	9.2	10.0	G5	1	..	38658i	75	711	3.0	-75 35	8.0	8.0	B9	6	..	40298b
26	2158	2.8	+37 0	8.2	8.8	Go	4	..	38658i	76	944	3.1	+63 3	8.6	8.7	A2	4	..	37716i
27	2405	2.8	-0 24	8.53	9.53	Ko	3	..	22977b	77	2157	3.1	+36 31	7.30	8.30	Ko	5	5.7	38658i
28	3213	2.8	-9 37	9.2	10.2	Ko	3	..	19138b	78	2212	3.1	+35 15	8.3	8.7	F5	4	..	37572i
29	3308	2.8	-14 6	9.3	9.4	A5	5	..	1914ob	79	2288	3.1	+21 34	8.0	8.4	F5	5	..	37504i
30	6745	2.8	-42 56	9.6	9.3	A2	2	..	9376b	80	2450	3.1	+5 0	7.9	8.3	F5	6	..	1337ob
31	6519	2.8	-47 28	10.0	10.0	F5	2	..	38416b	81	2423	3.1	+4 4	7.6	7.7	A2	7	..	1337ob
32	6521	2.8	-47 42	8.5	8.7	A2	6	..	38416b	82	2462	3.1	+3 43	9.5	10.7	K5	2	..	21675b
33	6186	2.8	-48 16	9.6	10.5	K2	1	..	38416b	83	9752	3.1	-23 19	8.4	9.1	Ko	7	..	4045ob
34	5343	2.8	-52 4	10.8	10.8	Ao	2	..	3760ob	84	5846	3.1	-49 24	9.4	8.8	Ao	5	..	38416b
35	..	2.8	-53 54	..	..	Mb	1	..	3760ob	85	3150	3.1	-58 10	9.7	9.7	B8	2	..	4009ob
36	4293	2.8	-57 55	9.4	9.4	Ao	4	..	4009ob	86	3153	3.1	-58 26	10.2	10.3	A2	1	..	4009ob
37	4291	2.8	-58 6	9.9	10.0	A2	1	..	4009ob	87	1220	3.2	+60 45	8.8	9.8	Ko	3	..	37716i
38	3052	2.8	-59 15	8.4	8.8	B2	2	..	4009ob	88	1303	3.2	+58 10	8.2	9.2	Ko	2	..	37717i
39	1623	2.8	-65 28	8.5	9.3	G5	3	..	38798b	89	1421	3.2	+54 41	8.16	8.72	Go	4	..	37717i
40	2561	2.9	+20 28	9.7	10.5	G5	2	..	37504i	90	2200	3.2	+34 24	8.7	9.3	Go	3	..	37572i
41	2452	2.9	+9 35	8.4	8.8	F5	5	..	38319i	91	2289	3.2	+21 37	8.2	8.8	Go	3	..	37504i
42	3203	2.9	-15 30	8.9	10.1	K5	1	..	4122ob	92	2216	3.2	+16 18	9.5	10.5	Ko	2	..	4905m
43	3350	2.9	-20 17	9.18	10.0	Ko	3	0.2	4045ob	93	2462	3.2	+8 10	8.0	9.0	Ko	4	..	21675b
44	9751	2.9	-23 16	10.6	9.8	F5	2	..	4045ob	94	2488	3.2	-1 22	6.86	7.86	Ko	9	..	22977b
45	6913	2.9	-39 40	9.3	9.2	Ao	2	..	9377b	95	3053	3.2	-3 22	8.3	9.5	K5	2	..	19228b
46	5841	2.9	-50 8	10.2	10.1	F8	2	..	38416b	96	3352	3.2	-20 59	7.7	8.6	Ko	8	..	4045ob
47	4229	2.9	-52 42	9.6	10.2	Go	1	..	3760ob	97	3241	3.2	-22 1	9.1	9.4	F2	4	..	4045ob
48	4356	2.9	-53 40	9.8	10.3	F8	2	..	3760ob	98	3084	3.2	-22 18	9.1	9.4	K2	3	..	4045ob
49	4324	2.9	-54 8	10.2	10.3	A5	3	..	3760ob	99	9753	3.2	-24 3	10.4	10.0	G5	1	..	4045ob
50	..	2.9	-54 35	var.	var.	Nb	1	R	3760ob	100	8875	3.2	-29 38	6.53	7.6	Go	9	..	1131ob

THE HENRY DRAPER CATALOGUE.

96700

11^h 3^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7043	3.2	-37 52	7.42	8.7	K2	4	..	41327b	51	5724	3.5	-50 35	10.5	9.8	G5	1	..	38416b
2	4359	3.2	-53 16	9.5	10.3	G5	3	..	37600b	52	4331	3.5	-54 12	9.5	9.5	B8	3	..	37662b
3	3155	3.2	-58 33	9.1	9.4	A0	2	..	40090b	53	4149	3.5	-55 16	9.70	10.0	G5	4	..	37600b
4	2071	3.2	-61 26	8.4	9.4	K5	1	..	38834b	54	4312	3.5	-57 58	9.4	9.5	A2	4	..	40090b
5	1304	3.2	-70 17	7.16	7.9	F2	6	..	40075b	55	3161	3.5	-58 13	8.2	8.2	A0	7	..	40090b
6	1305	3.2	-70 20	5.80	5.63	B3	..	..	56,129	56	3163	3.5	-59 8	7.2	8.5	Ko	4	..	40090b
7	632	3.3	+67 45	6.09	6.23	A5	9	..	37554i	57	684	3.6	+67 17	8.2	8.5	Fo	4	..	37554i
8	1304	3.3	+58 24	7.21	7.99	G5	5	..	37717i	58	834	3.6	+63 51	7.87	8.29	F5	5	..	37716i
9	1422	3.3	+54 12	8.8	9.6	G5	2	..	37717i	59	945	3.6	+63 31	8.0	8.8	G5	4	..	37716i
10	2463	3.3	+3 45	8.1	9.1	Ko	5	..	13370b	60	2292	3.6	+20 48	8.6	10.0	Mb	3	..	37504i
11	2407	3.3	-0 18	7.73	9.08	Ma	5	..	22977b	61	2219	3.6	+16 17	10.0	11.2	K5	2	..	4905m
12	3206	3.3	-15 26	7.90	8.32	F5	6	..	41220b	62	2451	3.6	+5 33	8.5	8.8	Fo	3	..	13370b
13	4360	3.3	-53 31	8.5	8.9	B9	5	..	37662b	63	3037	3.6	-11 28	8.9	9.2	Fo	4	..	19140b
14	4306	3.3	-57 56	9.5	9.5	A0	3	..	40090b	64	3351	3.6	-12 21	9.6	9.9	F2	2	..	19140b
15	3064	3.3	-59 25	8.2	8.3	B	4	..	40090b	65	3266	3.6	-15 1	8.8	9.6	G5	5	..	41220b
16	2539	3.3	-60 50	8.0	8.2	B5	5	..	38834b	66	3353	3.6	-20 15	8.93	9.7	Ma	3	..	40450b
17	1503	3.4	+56 15	8.7	9.7	Ko	2	..	37716i	67	3085	3.6	-22 21	10.0	9.5	A5	3	..	40450b
18	2421	3.4	+19 13	8.9	9.3	F5	3	..	37504i	68	9755	3.6	-24 0	9.3	9.7	Ko	3	..	40450b
19	2318	3.4	+17 45	6.86	7.64	G5	5	..	37504i	69	6537	3.6	-47 38	10.9	10.5	Ko	1	..	38416b
20	2489	3.4	-1 32	8.3	9.4	K2	6	..	22977b	70	4239	3.6	-52 16	8.2	9.4	Ma	5	..	37600b
21	3035	3.4	-11 55	9.3	9.9	Go	1	..	19140b	71	4318	3.6	-57 45	9.8	9.9	A2	3	0,1	40090b
22	8367	3.4	-26 35	8.3	10.1	K2	1	..	40450b	72	4315	3.6	-57 56	9.5	9.5	A0	3	..	40090b
23	8877	3.4	-29 26	6.38	7.0	A0	10	..	11310b	73	3170	3.6	-58 17	9.7	9.7	A0	3	..	40090b
24	6533	3.4	-40 24	8.2	8.9	K2	2	..	9377b	74	3168	3.6	-58 24	9.4	9.4	A0	2	..	40090b
25	6748	3.4	-42 32	8.9	9.0	Go	2	..	9376b	75	2072	3.6	-61 34	9.9	9.7	B	1	..	38798b
26	6530	3.4	-47 58	10.9	10.0	F5	2	..	38416b	76	1839	3.6	-63 54	9.9	9.9	A0	1	..	38798b
27	5850	3.4	-50 0	8.57	9.4	Ko	3	..	38416b	77	1840	3.6	-63 58	9.6	9.6	A0	2	..	38798b
28	4148	3.4	-56 7	8.4	8.6	B9	6	..	37662b	78	2111	3.7	+30 35	7.18	7.96	G5	8	..	37572i
29	3157	3.4	-58 8	9.7	9.7	B9	2	..	40090b	79	2220	3.7	+16 21	10.3	11.3	Ko	1	..	4905m
30	3160	3.4	-58 15	9.7	9.7	A	1	..	40090b	80	2294	3.7	+15 44	7.9	8.4	F8	6	2,2	4905m
31	3159	3.4	-58 36	9.1	8.5	B9	4	..	40090b	81	2347	3.7	+13 53	10.7	10.7	A0	3	..	4905m
32	3158	3.4	-58 40	10.0	10.0	A	1	..	40090b	82	3201	3.7	-10 39	9.1	9.5	F5	4	..	19140b
33	1894	3.4	-62 52	9.3	9.3	B9	2	..	38798b	83	3268	3.7	-14 59	9.6	10.1	F8	3	..	41220b
34	1541	3.5	+51 55	7.12	8.47	Ma	7	..	37717i	84	3242	3.7	-21 38	8.5	9.5	K2	3	..	40450b
35	2213	3.5	+34 51	8.92	9.42	F8	3	..	37572i	85	7518	3.7	-33 14	8.2	9.1	Ko	3	..	41410b
36	2110	3.5	+30 2	9.2	9.5	Fo	3	..	37572i	86	6777	3.7	-46 24	9.8	9.6	Ko	4	..	38416b
37	1971	3.5	+28 31	8.6	9.1	F8	3	..	37505i	87	5854	3.7	-49 34	10.5	10.2	A3	1	..	38416b
38	2344	3.5	+25 12	5.63	5.69	A2	9	..	37505i	88	4230	3.7	-56 15	9.9	9.9	B8	4	..	37600b
39	2310	3.5	+23 27	9.2	9.7	F8	2	0,1	37504i	89	4320	3.7	-57 45	7.9	8.8	Ko	6	0,7	21695b
40	2562	3.5	+20 20	9.6	10.2	Go	2	..	37504i	90	4319	3.7	-58 6	10.1	9.9	B	2	..	40090b
41	2319	3.5	+17 20	9.0	9.8	G5	1	..	37504i	91	3172	3.7	-58 31	10.3	10.3	A	1	..	40090b
42	2750	3.5	-0 2	8.0	9.1	K2	4	..	22977b	92	1222	3.8	+61 39	9.5	10.3	G5	1	..	37716i
43	3211	3.5	-5 53	9.1	10.3	K5	4	..	19138b	93	1223	3.8	+61 18	7.77	8.55	G5	6	..	37716i
44	3180	3.5	-7 37	9.6	10.4	G5	1	..	19138b	94	2348	3.8	+14 12	10.3	11.4	K2	1	..	4905m
45	3307	3.5	-17 35	8.8	9.1	Fo	3	..	41220b	95	2452	3.8	+5 36	9.3	10.4	K2	1	..	21675b
46	8790	3.5	-31 33	9.1	9.5	G5	1	..	41410b	96	2490	3.8	-2 11	8.47	9.54	K2	3	..	22977b
47	8791	3.5	-32 7	8.3	7.4	A0	6	..	41410b	97	3213	3.8	-5 36	9.6	10.2	Go	2	..	19138b
48	7515	3.5	-33 46	8.9	8.8	A0	4	..	41410b	98	3309	3.8	-17 19	10.2	11.0	G5	1	..	41220b
49	6351	3.5	-41 51	8.0	8.7	Ko	4	..	9376b	99	3109	3.8	-18 40	9.3	9.9	Go	1	..	41220b
50	6774	3.5	-46 39	9.6	10.0	Ko	3	..	38416b	100	3183	3.8	-19 31	8.1	9.1	G5	4	..	41220b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

96800

11^h 3^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3244	m. 3.8	° -21 31	9.3	9.7	Go	2	..	4045ob	51	1654	m. 4.0	° -67 44	9.4	9.4	A	1	..	40075b
2	8882	3.8	-29 12	7.15	8.2	Ko	4	..	1131ob	52	651	4.1	+70 26	8.7	9.2	F8	3	..	37554i
3	8881	3.8	-29 35	8.1	8.5	F5	4	..	1131ob	53	2187	4.1	+42 28	8.8	9.8	Ko	3	..	38308i
4	6199	3.8	-48 51	8.2	8.8	Ko	4	..	38416b	54	2293	4.1	+21 33	9.2	10.0	G5	2	..	37504i
5	5355	3.8	-51 52	6.8	7.8	F2	6	..	9442b	55	2409	4.1	-0 47	6.75	6.81	A2	10	..	22977b
6	4242	3.8	-52 26	10.2	10.2	Ao	3	..	3760ob	56	3314	4.1	-6 21	9.3	10.1	G5	1	..	19138b
7	4366	3.8	-54 1	9.7	10.3	Go	1	..	37662b	57	3204	4.1	-10 50	9.2	9.3	A2	7	..	19140b
8	4322	3.8	-57 57	9.0	9.1	A2	5	..	4009ob	58	8987	4.1	-30 47	8.7	9.5	Go	2	..	4141ob
9	3174	3.8	-58 18	8.7	8.8	A2	4	..	4009ob	59	6759	4.1	-42 11	9.0	9.5	Ko	1	..	9376b
10	3075	3.8	-59 41	8.8	8.9	B	4	..	4009ob	60	6543	4.1	-47 57	10.2	10.1	A3	3	..	38416b
11	2544	3.8	-61 8	9.7	9.7	B9	2	..	38798b	61	6202	4.1	-49 7	9.0	8.5	A2	5	..	38416b
12	1647	3.8	-67 23	8.1	8.1	Ao	7	..	40075b	62	4247	4.1	-52 25	9.4	10.5	K2	1	..	3760ob
13	2162	3.9	+36 51	5.99	7.34	Mb	9	0,8	38658i	63	4249	4.1	-52 42	9.1	9.4	Fo	4	..	37662b
14	2349	3.9	+14 37	10.7	11.5	G5	1	..	4905m	64	4156	4.1	-55 56	8.6	9.2	B3	3	..	37662b
15	2362	3.9	+13 39	10.3	11.3	Ko	1	..	4905m	65	4331	4.1	-57 53	10.0	10.0	Ao	2	..	4009ob
16	3353	3.9	-12 42	8.5	9.5	Ko	6	..	19140b	66	2552	4.1	-60 38	9.1	9.2	A2	2	..	38798b
17	3269	3.9	-15 6	10.5	11.3	G5	2	..	4122ob	67	1843	4.1	-63 57	9.0	9.0	Ao	3	..	38834b
18	3355	3.9	-21 6	10.2	10.5	Ko	1	..	4122ob	68	1656	4.1	-67 43	8.7	9.0	Fo	4	..	40075b
19	7886	3.9	-27 32	5.49	6.6	A2	..	2,9	28,205	69	1655	4.1	-68 4	8.8	9.1	F2	2	..	40075b
20	4334	3.9	-54 14	10.1	10.2	A2	3	..	3760ob	70	64	4.2	+88 11	7.44	7.39	B8	9	..	37793i
21	4152	3.9	-55 18	10.2	10.3	A2	2	..	3760ob	71	2364	4.2	+13 27	9.3	10.1	G5	5	5,2	4905m
22	4232	3.9	-56 59	8.8	9.4	B8	3	..	37662b	72	3205	4.2	-11 10	10.0	11.0	Ko	1	..	19140b
23	4324	3.9	-57 24	9.7	9.7	Ao	2	..	21695b	73	3113	4.2	-18 19	8.8	9.8	Ko	2	..	4122ob
24	4325	3.9	-57 37	10.2	10.2	Ao	1	..	4009ob	74	3185	4.2	-19 58	7.64	8.2	Ao	8	..	4122ob
25	3177	3.9	-58 11	10.0	10.0	Ao	2	..	4009ob	75	6544	4.2	-47 35	10.9	10.7	Fo	1	..	38416b
26	3175	3.9	-58 27	9.1	9.2	A2	3	..	4009ob	76	4250	4.2	-52 25	9.4	10.4	Ko	3	..	3760ob
27	3079	3.9	-59 25	9.3	9.4	A2	3	..	4009ob	77	4157	4.2	-55 28	9.2	10.6	Mb	..	..	M
28	3078	3.9	-59 42	8.3	8.5	Ao	6	0,4	21695b	78	3182	4.2	-58 8	10.6	10.6	A	1	..	4009ob
29	2546	3.9	-60 17	7.43	7.9	B8	3	3,7	4303ob	79	3183	4.2	-58 17	8.8	8.8	B9	3	..	4009ob
30	..	3.9	-61 24	Nov.	Nov.	Pec.	..	R	76,37	80	3184	4.2	-58 52	7.2	8.2	B	6	R	4009ob
31	778	3.9	-74 11	9.9	9.9	Ao	1	..	39198b	81	3181	4.2	-59 1	9.1	9.4	Ao	2	..	4009ob
32	1425	4.0	+54 38	7.16	7.72	Go	6	..	37717i	82	2553	4.2	-60 44	8.5	8.5	B9	4	..	38798b
33	1897	4.0	+45 2	3.15	4.15	Ko	..	R	2525c	83	2554	4.2	-61 5	9.1	8.0	B5	4	..	38834b
34	2083	4.0	+43 45	6.03	7.38	Ma	6	..	38658i	84	1628	4.2	-65 13	9.18	9.1	Ao	4	..	38798b
35	2363	4.0	+13 38	9.3	9.8	F8	4	..	4905m	85	1539	4.2	-66 35	9.6	9.6	Ao	1	..	40075b
36	3220	4.0	-9 20	9.1	10.1	Ko	1	..	19138b	86	2215	4.3	+35 26	9.0	9.5	F8	3	..	37572i
37	3219	4.0	-9 44	8.8	9.8	Ko	6	..	19138b	87	2321	4.3	+21 50	10.4	11.0	G	1	..	37504i
38	3110	4.0	-18 52	6.72	6.72	Ao	9	..	4122ob	88	3058	4.3	-3 32	9.2	10.4	K5	1	..	19228b
39	3356	4.0	-20 23	10.0	10.0	Ko	1	..	4045ob	89	3186	4.3	-19 37	9.3	10.0	Ko	3	E	4045ob
40	3248	4.0	-21 21	9.6	9.5	A5	3	..	4045ob	90	6717	4.3	-45 37	8.8	10.1	K2	1	..	9376b
41	3246	4.0	-21 33	9.2	9.4	Go	3	..	4045ob	91	6780	4.3	-46 12	10.9	9.6	A3	3	..	38416b
42	8799	4.0	-31 31	9.7	9.5	Ao	1	..	4141ob	92	4252	4.3	-52 36	9.3	10.5	K5	2	..	3760ob
43	7523	4.0	-33 51	8.3	8.8	Go	3	..	4141ob	93	4371	4.3	-53 41	9.8	10.6	G5	1	..	3760ob
44	6957	4.0	-38 56	7.13	7.3	Ao	8	0,4	41327b	94	4337	4.3	-54 10	10.2	10.3	A2	3	..	3760ob
45	5862	4.0	-49 57	9.2	9.1	F8	4	..	38416b	95	4335	4.3	-57 53	9.0	8.8	B	4	..	4009ob
46	5733	4.0	-50 37	9.6	9.9	G5	1	..	38416b	96	4337	4.3	-57 59	9.7	9.7	Ao	3	..	4009ob
47	4367	4.0	-53 11	9.9	10.2	Fo	2	..	37662b	97	3187	4.3	-58 8	9.6	9.7	A5	2	..	4009ob
48	4335	4.0	-54 36	9.8	10.3	F8	3	..	3760ob	98	3186	4.3	-58 21	8.9	8.3	Fo	4	..	4009ob
49	3178	4.0	-58 24	8.8	8.8	Ao	6	..	4009ob	99	2555	4.3	-60 26	8.9	8.9	B8	3	..	38798b
50	1632	4.0	-64 25	8.6	9.4	G5	1	..	38834b	100	1846	4.3	-63 25	8.8	9.3	F8	2	..	38798b

THE HENRY DRAPER CATALOGUE.

96900

11^h 4^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1845	m. 4.3	° -64 4	8.9	8.7	B3	3	..	38834b	51	2160	m. 4.7	° +35 52	7.66	7.66	Ao	7	..	37572i
2	1540	4.3	-66 56	8.9	9.3	F5	3	..	40075b	52	2323	4.7	+22 8	10.0	10.6	G	1	..	37504i
3	1434	4.3	-68 59	8.4	9.5	K2	1	..	40075b	53	2297	4.7	+15 15	8.5	9.5	Ko	5	5,2	4905m
4	1504	4.4	+56 14	9.5	9.8	Fo	3	..	37717i	54	2352	4.7	+14 29	10.0	10.5	F8	3	..	4905m
5	2083	4.4	+33 23	9.6	10.2	G	2	..	37572i	55	2409	4.7	+6 17	9.18	9.46	Fo	4	..	21675b
6	3207	4.4	-11 8	7.7	8.9	K5	8	..	19140b	56	2426	4.7	+4 15	8.1	9.1	Ko	3	..	13370b
7	3357	4.4	-20 24	9.6	9.5	Go	2	..	41220b	57	3216	4.7	-5 16	8.95	9.23	Fo	7	..	19138b
8	3088	4.4	-23 10	10.0	10.0	Ko	1	..	40450b	58	3314	4.7	-14 4	9.8	10.6	G5	1	..	19140b
9	6934	4.4	-39 54	8.9	9.0	F5	2	..	9377b	59	3089	4.7	-23 1	9.1	9.5	Ko	4	..	40450b
10	6547	4.4	-47 52	8.2	7.7	B9	8	..	38416b	60	6784	4.7	-46 59	10.0	10.1	F5	2	..	38416b
11	6546	4.4	-47 59	10.0	9.6	A2	3	..	38416b	61	5874	4.7	-49 47	10.9	10.4	Go	1	..	38416b
12	5871	4.4	-49 44	10.2	10.2	G5	1	..	38416b	62	4263	4.7	-52 45	10.4	10.5	A2	2	..	37600b
13	5371	4.4	-51 45	8.4	8.8	Ko	7	..	37600b	63	4260	4.7	-52 52	9.5	10.5	Ko	3	..	37600b
14	4253	4.4	-52 21	8.9	9.9	Ko	4	..	37600b	64	4374	4.7	-53 40	10.3	10.3	Ao	2	..	37600b
15	4339	4.4	-54 22	8.8	8.8	B9	5	..	37662b	65	4375	4.7	-53 48	9.6	10.6	Ko	1	..	37600b
16	4338	4.4	-54 49	7.9	9.4	K5	4	..	37662b	66	4167	4.7	-55 21	9.5	10.0	F8	4	..	37600b
17	4238	4.4	-56 31	7.24	7.6	Bo	3	0,8	43030b	67	4245	4.7	-56 8	10.2	10.0	B3	3	..	37600b
18	3189	4.4	-58 26	4.02	5.5	F8p	..	R	28,205	68	4247	4.7	-56 52	8.2	8.2	A5	6	5,2	37662b
19	2075	4.4	-61 24	5.42	5.3	Aop	..	2,6 R	28,205	69	3199	4.7	-58 25	8.8	8.9	A2	5	..	40090b
20	1633	4.4	-64 53	7.03	8.7	Ko	6	..	38834b	70	2561	4.7	-60 22	7.9	8.3	Ao	5	..	38798b
21	2084	4.5	+33 4	7.26	8.26	Ko	6	..	37572i	71	518	4.8	+73 39	8.8	9.2	F5	3	..	37742i
22	2221	4.5	+16 25	8.5	9.5	Ko	4	5,2	4905m	72	703	4.8	+66 35	8.8	9.6	G5	2	..	38285i
23	2295	4.5	+15 40	8.5	9.5	Ko	6	5,2	4905m	73	1919	4.8	+48 20	7.24	7.66	F5	6	0,8	38648i
24	2351	4.5	+13 49	8.9	10.1	K5	3	3,1	4905m	74	2324	4.8	+22 10	9.2	9.8	Go	2	..	37504i
25	2464	4.5	+8 2	9.3	10.4	K2	2	..	21675b	75	2224	4.8	+16 26	7.38	7.66	Fo	7	0,9	37504i
26	3221	4.5	-9 52	8.5	8.9	F5	9	..	19138b	76	3209	4.8	-10 47	9.3	10.5	K5	2	..	19140b
27	4256	4.5	-52 59	8.5	8.8	B8	6	..	37662b	77	3273	4.8	-14 20	9.8	10.6	G5	2	..	19140b
28	4372	4.5	-53 10	9.9	10.3	F5	2	..	37600b	78	3272	4.8	-14 33	9.3	9.4	A2	5	..	19140b
29	4340	4.5	-54 45	10.0	10.0	Ao	3	..	37662b	79	9560	4.8	-24 49	10.6	11.0	Go	2	..	40450b
30	4340	4.5	-57 33	9.8	9.9	A2	2	0,2	21695b	80	7898	4.8	-27 14	10.1	10.1	Ao	1	..	11310b
31	3193	4.5	-58 10	9.9	10.0	A2	2	..	40090b	81	5743	4.8	-51 5	9.6	9.1	A2	5	..	38416b
32	1898	4.5	-62 22	9.2	10.2	Ko	1	..	38798b	82	5375	4.8	-52 1	8.7	9.0	F8	7	..	37600b
33	1659	4.5	-67 39	8.4	9.6	K5	1	..	40075b	83	4346	4.8	-54 38	9.7	10.2	F8	4	..	37600b
34	1201	4.5	-72 6	8.4	9.4	Ko	2	..	40298b	84	4169	4.8	-55 42	10.3	10.3	Ao	4	..	37600b
35	2223	4.6	+16 18	9.5	10.5	Ko	2	..	4905m	85	4168	4.8	-55 53	9.0	10.0	Ko	3	..	37600b
36	2255	4.6	+10 41	8.6	9.1	F8	4	..	38319i	86	3200	4.8	-58 46	9.6	9.7	A2	2	..	40090b
37	2466	4.6	+2 59	7.9	8.7	G5	5	..	13370b	87	3086	4.8	-59 40	9.2	9.2	Ao	2	0,2	21695b
38	3298	4.6	-2 27	9.1	9.6	F8	2	..	19228b	88	1900	4.8	-63 6	9.3	9.3	Ao	2	..	38834b
39	3215	4.6	-5 38	9.6	10.8	K5	1	..	19138b	89	1847	4.8	-63 38	9.3	9.3	B8	2	..	38798b
40	3249	4.6	-21 18	10.0	10.5	Ko	1	..	41220b	90	1632	4.8	-65 25	9.4	9.4	Ao	2	..	38798b
41	8487	4.6	-25 26	9.3	9.6	G5	2	..	11310b	91	1797	4.9	+49 56	9.0	9.8	G5	2	..	38648i
42	7895	4.6	-27 45	8.4	9.2	F8	3	..	11310b	92	2063	4.9	+44 27	8.9	9.9	Ko	2	..	38308i
43	6549	4.6	-47 15	10.9	10.4	A	1	..	38416b	93	2493	4.9	-1 17	8.9	10.1	K5	3	..	22977b
44	3198	4.6	-58 17	8.7	8.8	A2	6	..	40090b	94	3092	4.9	-8 59	9.3	9.8	F8	2	..	19138b
45	3083	4.6	-59 50	9.1	8.8	B8	3	..	38798b	95	3357	4.9	-12 37	9.3	10.1	G5	3	..	19140b
46	2559	4.6	-60 13	8.53	8.8	B5	3	..	38798b	96	3209	4.9	-15 37	10.2	11.3	K2	1	..	41220b
47	2558	4.6	-61 1	8.7	7.2	B9	2	1,6	43030b	97	8813	4.9	-31 46	9.1	9.1	Ko	4	..	41410b
48	1899	4.6	-62 33	8.9	10.0	K2	1	..	38798b	98	6769	4.9	-42 26	8.4	8.3	Ao	2	..	43044b
49	820	4.7	+65 15	9.5	9.9	F5	2	..	37346i	99	4377	4.9	-53 26	9.9	9.9	Ao	3	..	37662b
50	1352	4.7	+59 26	9.1	9.9	G5	2	..	37716i	100	3203	4.9	-58 11	8.6	8.0	A2	7	..	40090b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

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11^h 4^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2563	4.9	-60 17	9.18	9.1	Ao	2	..	38798b	51	2213	5.3	+38 28	9.2	10.0	G5	1	..	38658i
2	352	5.0	+79 26	8.2	9.0	G5	2	..	37465i	52	2346	5.3	+25 40	8.9	9.9	Ko	1	..	37505i
3	685	5.0	+67 16	8.2	9.2	Ko	3	..	37554i	53	2465	5.3	+ 8 26	7.9	9.1	K5	5	..	21675b
4	2085	5.0	+42 57	8.2	9.2	Ko	3	..	38658i	54	2412	5.3	+ 6 41	10.0	10.0	Ao	1	..	21675b
5	2313	5.0	+23 14	7.24	7.52	Fo	7	..	37504i	55	3218	5.3	- 6 9	8.3	9.3	Ko	6	..	19138b
6	2421	5.0	+ 6 51	9.3	9.7	F5	5	..	21675b	56	8394	5.3	-26 59	7.8	9.3	K5	3	..	11310b
7	3251	5.0	-22 7	9.3	9.8	K2	3	..	40450b	57	6791	5.3	-46 35	10.9	10.4	G5	1	..	38416b
8	9564	5.0	-24 39	9.9	11.3	Go	1	..	40450b	58	6564	5.3	-47 14	10.9	10.7	G5	1	..	38416b
9	7902	5.0	-27 8	8.7	11.0	K5	1	..	11310b	59	6225	5.3	-48 38	9.6	9.4	F8	3	..	38416b
10	4271	5.0	-52 42	8.9	8.7	Ao	6	..	37662b	60	4276	5.3	-52 20	10.1	10.2	A2	3	..	37600b
11	4379	5.0	-53 33	10.3	10.3	A	3	..	37600b	61	4383	5.3	-53 26	10.0	10.6	Go	1	..	37600b
12	4251	5.0	-56 18	9.5	9.5	Ao	3	..	37662b	62	4382	5.3	-53 43	10.0	10.0	Ao	3	..	37662b
13	3088	5.0	-59 47	9.1	9.1	B8	3	..	38798b	63	4354	5.3	-54 10	7.4	7.5	B9	9	..	37662b
14	1901	5.0	-62 40	9.7	9.7	Ao	2	..	38798b	64	4352	5.3	-57 19	9.5	10.0	F8	2	..	21695b
15	806	5.0	-73 26	8.0	9.0	Ko	7	..	40298b	65	3211	5.3	-58 38	9.1	9.1	B9	3	1,3	40090b
16	2424	5.1	+19 44	10.00	10.78	G5	1	..	37504i	66	3094	5.3	-59 43	9.1	9.1	Ao	3	0,3	21695b
17	2298	5.1	+15 35	10.0	10.4	F5	2	..	4905m	67	2306	5.4	+12 11	7.9	9.1	K5	2	..	38319i
18	3198	5.1	-17 2	8.9	9.3	F5	3	..	41220b	68	2307	5.4	+11 50	7.46	8.81	Mb	4	..	38319i
19	3314	5.1	-17 54	9.6	9.6	Ao	1	..	41220b	69	3359	5.4	-12 38	9.3	10.1	G5	2	..	19140b
20	3252	5.1	-22 7	9.6	10.5	K2	1	..	40450b	70	3192	5.4	-19 52	9.1	9.7	F8	2	..	41220b
21	8688	5.1	-29 3	7.8	8.3	Ao	6	..	11310b	71	3254	5.4	-22 5	9.6	9.8	F5	3	..	40450b
22	8896	5.1	-29 15	6.92	8.3	Ko	6	..	11310b	72	7908	5.4	-27 43	7.64	8.4	G5	4	..	11310b
23	8816	5.1	-31 49	5.76	6.6	A2	..	2,10	56,129	73	7067	5.4	-37 48	8.9	9.7	Ko	1	..	9377b
24	7246	5.1	-34 52	8.6	9.0	Ao	4	..	41410b	74	6567	5.4	-47 38	9.6	10.0	A5	2	..	38416b
25	6774	5.1	-42 47	7.8	7.8	A5	3	..	43044b	75	4277	5.4	-52 47	9.3	9.3	Ao	4	..	37662b
26	6560	5.1	-48 5	8.4	8.3	A2	7	..	38416b	76	4282	5.4	-53 7	8.1	8.4	G5	5	..	37662b
27	6222	5.1	-48 37	9.6	9.4	Go	3	..	38416b	77	4355	5.4	-54 46	9.0	9.1	A5	4	..	37662b
28	5883	5.1	-50 3	10.2	10.2	Fo	2	..	38416b	78	4175	5.4	-55 9	9.9	10.0	A2	4	..	37600b
29	5380	5.1	-51 35	10.5	10.8	Ma	1	..	37600b	79	4176	5.4	-55 29	9.4	10.8	Mb	1	..	37600b
30	4174	5.1	-55 37	8.7	9.5	F5	4	..	37662b	80	4356	5.4	-58 1	10.1	10.2	A2	1	..	40090b
31	4348	5.1	-57 59	9.1	10.2	K2	1	..	40090b	81	4355	5.4	-58 8	10.0	10.0	A	1	..	40090b
32	1661	5.1	-67 48	9.2	9.2	Ao	1	..	40075b	82	3216	5.4	-58 18	var.	var.	F8	..	2,8 R	40090b
33	704	5.2	+66 34	9.0	9.8	G5	2	..	37554i	83	1902	5.4	-62 21	9.6	9.7	A2	2	..	38798b
34	2236	5.2	+30 55	8.2	8.2	Ao	5	..	37572i	84	521	5.5	+72 7	9.2	10.6	Ma	1	..	37554i
35	2353	5.2	+14 3	10.7	11.7	K	1	..	4905m	85	706	5.5	+66 39	9.8	10.1	F2	1	..	38285i
36	2322	5.2	+11 42	8.1	9.1	Ko	4	..	38319i	86	2354	5.5	+13 55	10.7	11.3	G	1	..	4905m
37	3317	5.2	- 6 50	6.79	7.35	Go	10	..	19138b	87	2365	5.5	+13 38	8.5	9.3	G5	5	5,3	4905m
38	3211	5.2	-10 49	8.2	8.8	Go	9	..	19140b	88	3059	5.5	- 3 20	8.8	10.0	K5	1	..	19228b
39	3358	5.2	-12 28	9.3	9.6	F2	2	..	19140b	89	3094	5.5	- 8 29	7.7	8.2	F8	8	..	19138b
40	3317	5.2	-13 46	8.8	8.8	Ao	5	..	19140b	90	7018	5.5	-35 27	9.2	9.3	F8	2	..	41410b
41	3253	5.2	-21 30	9.8	9.7	F8	2	..	41220b	91	6377	5.5	-42 0	8.6	9.2	G5	2	..	9376b
42	3090	5.2	-22 18	8.8	9.1	F2	6	..	40450b	92	5890	5.5	-49 29	9.6	9.3	A5	4	..	38416b
43	3091	5.2	-22 49	9.6	10.5	K2	1	..	40450b	93	3219	5.5	-58 10	8.5	8.6	A2	4	..	40090b
44	9567	5.2	-25 4	7.32	8.6	Ko	5	..	11310b	94	2572	5.5	-60 40	9.2	9.2	B9	3	..	38798b
45	6562	5.2	-47 51	9.6	9.5	A3	3	..	38416b	95	1633	5.5	-65 36	9.0	9.0	B9	5	..	38798b
46	4352	5.2	-54 32	10.2	10.3	A2	2	..	37600b	96	1663	5.5	-67 13	9.3	9.3	B9	2	..	40075b
47	2569	5.2	-60 39	9.1	9.2	B8	2	..	38798b	97	1485	5.5	-70 4	9.0	9.1	A2	2	..	40075b
48	654	5.2	-77 7	9.0	9.0	Ao	4	..	21530b	98	1470	5.6	+53 35	8.8	9.6	G5	2	..	37717i
49	597	5.2	-79 13	8.9	8.9	Ao	4	..	21530b	99	1472	5.6	+53 19	9.5	10.5	K	1	..	37717i
50	705	5.3	+66 34	9.0	10.0	K	1	..	37554i	100	2239	5.6	+31 3	9.0	9.6	Go	2	..	37572i

THE HENRY DRAPER CATALOGUE.

97100

11^h 5^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2240	5.6	+31 0	8.8	10.0	K5	2	..	37572i	51	3100	5.8	-59 33	8.0	7.5	B2	7	..	21695b
2	1988	5.6	+26 48	8.4	9.6	K5	1	..	37505i	52	2578	5.8	-60 26	8.06	7.9	Oa	..	0,4	28,205
3	2326	5.6	+21 52	7.18	7.96	G5	5	..	37504i	53	1545	5.8	-66 28	8.7	9.9	K5	1	..	40075b
4	2565	5.6	+19 56	10.9	11.5	Go	2	..	37504i	54	1324	5.8	-70 36	8.6	8.6	Ao	5	..	40075b
5	2425	5.6	+18 55	8.6	9.2	Go	4	..	37504i	55	2215	5.9	+38 13	8.7	9.7	Ko	2	..	38658i
6	2322	5.6	+16 51	10.3	10.9	Go	2	..	4905m	56	3222	5.9	-5 37	8.9	9.9	Ko	4	..	19138b
7	3095	5.6	-8 53	8.1	9.1	Ko	7	..	19138b	57	3223	5.9	-5 47	9.2	10.0	G5	2	..	19138b
8	3276	5.6	-14 23	9.1	9.5	F5	4	..	19140b	58	3199	5.9	-17 9	9.2	10.4	K5	1	..	41220b
9	3216	5.6	-15 55	8.5	9.1	Go	3	..	41220b	59	8695	5.9	-29 2	8.7	9.3	Ao	4	..	11310b
10	3093	5.6	-22 15	9.8	10.0	Go	2	..	40450b	60	6559	5.9	-41 6	8.2	8.4	Ao	4	..	9377b
11	8500	5.6	-25 27	7.37	8.0	A5	8	..	11310b	61	5398	5.9	-51 51	10.2	10.5	Fo	2	..	37600b
12	7252	5.6	-34 51	8.2	9.3	Ko	3	..	41410b	62	4364	5.9	-54 27	9.7	10.2	F8	4	..	37600b
13	7019	5.6	-35 33	7.7	9.1	Ma	3	..	41410b	63	4363	5.9	-54 41	9.9	10.0	A2	2	..	37662b
14	7116	5.6	-44 59	8.48	8.9	Ko	3	..	9376b	64	4365	5.9	-54 56	10.3	10.3	Ao	2	..	37600b
15	6797	5.6	-46 10	10.5	10.0	A2	3	..	38416b	65	3229	5.9	-58 56	8.9	8.5	B	3	..	40090b
16	6799	5.6	-46 28	10.0	9.6	Ao	4	..	38416b	66	3102	5.9	-59 42	7.9	7.9	B2	5	..	21695b
17	6572	5.6	-48 0	9.1	9.2	Ao	4	..	38416b	67	2088	6.0	+43 22	8.8	9.6	G5	2	..	38658i
18	6229	5.6	-49 0	10.5	10.4	G5	1	..	38416b	68	8504	6.0	-25 14	8.85	9.8	Ko	1	..	11310b
19	5390	5.6	-51 46	9.8	10.5	Ko	2	..	37600b	69	6744	6.0	-45 18	9.04	8.7	A2	3	..	9376b
20	4360	5.6	-54 41	8.0	9.2	Ko	4	..	37662b	70	6236	6.0	-48 44	9.2	9.6	Ko	2	..	38416b
21	4181	5.6	-55 26	9.7	9.7	B9	2	..	37662b	71	5403	6.0	-52 1	8.6	8.5	Ao	7	..	37600b
22	4259	5.6	-56 8	9.1	9.4	Go	3	..	37662b	72	4370	6.0	-57 58	8.8	8.8	B8	6	..	21695b
23	4258	5.6	-56 40	9.5	9.5	Ao	3	..	37662b	73	3231	6.0	-58 58	8.9	8.3	A	4	..	40090b
24	4360	5.6	-57 43	9.1	9.1	Ao	5	0,4	40090b	74	1635	6.0	-65 9	9.6	9.6	B9	1	..	38798b
25	1426	5.7	+54 41	6.60	6.74	A5	9	..	37717i	75	1487	6.0	-69 49	8.2	8.0	B3	4	..	40075b
26	2181	5.7	+26 34	8.7	9.7	Ko	1	..	37505i	76	1202	6.0	-71 45	8.4	9.4	Ko	3	..	40298b
27	2323	5.7	+17 36	9.3	9.9	Go	2	..	37504i	77	378	6.1	+78 9	8.2	8.7	F8	3	..	37465i
28	2226	5.7	+15 47	8.7	9.2	F8	3	..	4905m	78	1545	6.1	+52 38	8.8	9.4	Go	3	..	37717i
29	2355	5.7	+14 8	9.5	10.3	G5	2	..	4905m	79	2465	6.1	+8 48	9.0	9.0	Ao	5	..	21675b
30	3060	5.7	-3 24	9.3	10.3	Ko	1	..	19228b	80	3022	6.1	-4 47	8.20	8.20	Ao	10	..	19138b
31	8898	5.7	-29 55	8.4	9.1	F2	3	..	11310b	81	3212	6.1	-10 44	8.7	9.7	Ko	8	..	19140b
32	5759	5.7	-50 46	9.0	9.6	Ao	3	..	38416b	82	3200	6.1	-16 36	7.7	7.8	A2	5	..	41220b
33	4262	5.7	-57 4	9.8	9.9	A3	2	..	21695b	83	6239	6.1	-48 29	9.8	9.7	F5	2	..	38416b
34	2576	5.7	-60 40	8.9	9.7	G5	1	..	38798b	84	6241	6.1	-48 39	9.8	9.4	Ao	3	..	38416b
35	2575	5.7	-61 6	10.0	10.0	Ao	1	..	38798b	85	6240	6.1	-49 6	7.6	7.3	B5	8	..	38416b
36	1852	5.7	-63 15	9.1	9.1	B8	4	..	38798b	86	4375	6.1	-57 31	10.0	10.0	Ao	3	..	21695b
37	1544	5.7	-66 38	9.3	9.3	Ao	2	..	40075b	87	4374	6.1	-57 36	9.0	9.4	G5	4	..	21695b
38	602	5.8	+68 50	6.42	6.48	A2	8	..	37554i	88	3233	6.1	-58 22	9.3	9.4	A2	1	..	40090b
39	634	5.8	+68 24	8.8	9.8	Ko	2	..	37554i	89	1665	6.1	-67 32	8.3	9.3	Ko	2	..	40075b
40	1353	5.8	+59 27	7.31	7.87	Go	5	0,5	37716i	90	522	6.2	+72 9	8.8	9.6	G5	2	..	37554i
41	2257	5.8	+10 23	9.0	10.0	Ko	2	..	38319i	91	946	6.2	+63 27	9.1	10.1	Ko	3	..	37716i
42	2754	5.8	+0 40	9.44	9.86	F5	1	..	13370b	92	1226	6.2	+61 44	8.1	8.2	A2	8	..	37716i
43	3221	5.8	-5 28	8.9	9.2	F2	2	..	19138b	93	1852	6.2	+47 5	8.4	9.2	G5	3	..	37726i
44	3362	5.8	-12 35	7.68	8.68	Ko	7	..	19140b	94	2089	6.2	+43 23	7.33	7.83	F8	7	..	37726i
45	8823	5.8	-32 1	8.3	7.5	F5	8	..	41410b	95	2413	6.2	+6 31	9.54	10.10	Go	2	..	21675b
46	7073	5.8	-37 53	8.4	9.6	K2	1	..	9377b	96	2434	6.2	+4 3	8.1	9.2	K2	1	..	13370b
47	5396	5.8	-51 47	10.2	9.9	Ao	4	..	37600b	97	2414	6.2	-0 51	7.9	9.0	K2	7	..	22977b
48	5394	5.8	-52 3	8.9	9.0	Fo	7	..	37600b	98	3024	6.2	-4 56	8.15	8.21	A2	10	..	19138b
49	4291	5.8	-53 4	10.1	10.2	A3	3	..	37600b	99	3215	6.2	-10 36	10.5	11.1	Go	1	..	19140b
50	3228	5.8	-58 19	8.9	8.9	Ao	3	..	40090b	100	7015	6.2	-36 11	8.6	9.6	K5	1	..	41410b

97200

11^h 6^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7122	m. 6.2	° -45 2	7.09	8.0	Ko	6	..	9376b	51	4392	m. 6.5	° -53 41	9.0	9.5	A2	4	..	37662b
2	6579	6.2	-47 10	9.1	9.2	B9	5	..	38416b	52	4273	6.5	-56 40	10.3	10.3	Ao	2	..	37600b
3	6578	6.2	-47 17	9.2	9.5	G5	4	..	38416b	53	3116	6.5	-59 50	7.18	7.3	B8	3	..	43030b
4	5897	6.2	-49 35	10.9	10.2	F2	1	..	38416b	54	2219	6.6	+35 33	7.86	7.92	A2	6	..	37572i
5	4296	6.2	-52 31	9.6	10.4	G5	2	..	37600b	55	2414	6.6	+6 22	9.84	10.62	G5	1	..	21675b
6	3109	6.2	-59 44	9.7	9.5	B	3	R	21154b	56	2415	6.6	-0 34	8.5	9.6	K2	3	..	19228b
7	3111	6.2	-59 44	9.4	9.2					57	3227	6.6	-9 21	8.8	9.3	F8	4	..	19140b
8	1907	6.2	-62 11	9.4	10.4	Ko	1	..	38798b	58	3318	6.6	-18 7	9.1	10.2	K2	2	..	41220b
9	1228	6.3	+61 39	8.6	9.6	Ko	2	..	37716i	59	3195	6.6	-19 38	9.1	9.5	F8	2	..	41220b
10	1445	6.3	+55 42	8.8	9.2	F5	2	..	37717i	60	3260	6.6	-21 32	9.3	10.3	Ko	1	..	41220b
11	1991	6.3	+27 22	7.9	8.3	F5	5	..	37505i	61	6390	6.6	-41 59	9.2	9.3	Fo	3	..	9376b
12	2494	6.3	-1 54	8.5	9.6	K2	3	..	19228b	62	6817	6.6	-46 22	9.6	9.5	F8	3	..	38416b
13	3025	6.3	-4 19	8.7	8.8	A3	5	..	19138b	63	6816	6.6	-47 3	9.2	8.6	Ao	6	..	38416b
14	3216	6.3	-10 26	9.6	10.8	K5	2	..	19140b	64	6583	6.6	-47 18	var.	var.	F5	4	R	38416b
15	3217	6.3	-10 47	10.0	11.0	Ko	2	..	19140b	65	6247	6.6	-48 37	10.0	10.2	K2	1	..	38416b
16	3364	6.3	-20 37	10.5	10.0	A2	1	..	41220b	66	5774	6.6	-50 54	9.6	9.6	F5	2	..	38416b
17	7033	6.3	-35 40	7.8	8.1	F5	7	..	41410b	67	4373	6.6	-54 44	8.5	9.4	G5	4	..	37662b
18	5901	6.3	-49 44	10.2	10.2	G5	1	..	38416b	68	4196	6.6	-55 19	10.3	10.2	B5	3	..	37600b
19	5767	6.3	-50 34	9.4	10.2	K5	1	..	38416b	69	4197	6.6	-56 4	10.3	10.3	Ao	3	..	37600b
20	4370	6.3	-54 48	9.6	10.0	F5	2	..	37762b	70	4274	6.6	-56 27	10.0	10.0	Ao	3	..	37600b
21	4266	6.3	-56 39	9.3	9.7	F5	4	..	37600b	71	4387	6.6	-57 55	6.34	7.3	B8	..	1,4	28,205
22	3114	6.3	-59 36	9.1	8.9	B	3	..	21695b	72	3242	6.6	-58 39	9.1	9.4	Ao	2	..	40090b
23	3113	6.3	-60 2	8.9	8.3	B8	4	..	38798b	73	1909	6.6	-62 30	9.8	9.8	Ao	2	..	38798b
24	2083	6.3	-61 11	9.5	9.5	B9	3	..	38798b	74	2118	6.7	+30 40	9.7	10.5	G5	2	..	37572i
25	1653	6.4	+51 38	9.5	10.5	Ko	1	..	38648i	75	2495	6.7	-2 5	10.0	10.6	Go	1	..	19228b
26	2350	6.4	+25 23	9.2	9.7	F8	1	..	37505i	76	3279	6.7	-14 17	9.8	10.1	Fo	3	..	19140b
27	2426	6.4	+19 15	8.0	8.3	F2	6	..	37504i	77	3095	6.7	-22 17	4.52	4.58	A2	..	R	28,205
28	2460	6.4	+18 42	9.3	10.1	G5	2	..	37504i	78	7556	6.7	-33 28	8.9	8.9	A2	3	..	41410b
29	2466	6.4	+8 51	9.3	9.4	A2	3	..	21675b	79	5911	6.7	-49 30	10.2	10.2	G5	1	..	38416b
30	2470	6.4	+3 3	8.7	8.8	A3	4	..	13370b	80	5910	6.7	-49 37	9.0	9.6	Ko	2	..	38416b
31	3321	6.4	-6 15	9.1	9.9	G5	3	..	19138b	81	5415	6.7	-52 7	9.2	9.0	A2	7	..	37600b
32	3099	6.4	-8 49	8.9	9.7	G5	3	..	19138b	82	4302	6.7	-52 23	9.6	9.6	Ao	5	..	37600b
33	3277	6.4	-14 26	9.3	10.5	K5	2	..	19140b	83	3245	6.7	-58 22	9.5	9.5	Ao	2	..	40090b
34	8510	6.4	-25 23	10.8	9.2	F8	2	..	11310b	84	2598	6.7	-60 12	R	8.9	B8	2	..	38798b
35	4391	6.4	-53 10	9.5	10.0	F8	5	..	37600b	85	563	6.8	+71 33	10.0	10.8	G5	2	..	37554i
36	4390	6.4	-53 18	10.6	10.6	Ao	2	..	37600b	86	603	6.8	+69 18	8.6	9.2	Go	3	..	37554i
37	2593	6.4	-60 22	9.1	9.2	Ko	2	..	38798b	87	2167	6.8	+37 26	7.56	8.34	G5	6	..	37572i
38	2592	6.4	-61 1	8.9	9.2	B8	2	..	38798b	88	2088	6.8	+33 8	8.8	9.6	G5	3	..	37572i
39	1856	6.4	-63 20	9.1	9.1	Ao	4	..	38798b	89	3065	6.8	-3 20	8.3	9.5	K5	2	..	19228b
40	651	6.4	-77 15	8.2	8.6	F5	4	..	21530b	90	3324	6.8	-6 52	9.3	10.5	K5	2	..	19138b
41	562	6.5	+71 18	9.5	10.5	Ko	2	..	37554i	91	7269	6.8	-34 58	8.2	9.7	K5	1	..	41410b
42	686	6.5	+67 33	8.9	9.2	F2	3	..	37554i	92	6798	6.8	-42 55	7.9	7.8	A3	3	..	43044b
43	2204	6.5	+34 6	9.6	10.4	G5	2	..	37572i	93	6821	6.8	-47 6	9.0	9.8	K2	3	..	38416b
44	2301	6.5	+14 56	6.29	6.43	A5	8	3,10	37504i	94	4393	6.8	-53 23	9.5	10.3	G5	3	..	37600b
45	3323	6.5	-6 20	10.0	10.6	Go	3	..	19138b	95	4199	6.8	-55 47	9.3	10.3	Ko	2	..	37600b
46	3189	6.5	-7 44	9.6	9.9	Fo	2	..	19138b	96	4389	6.8	-58 5	10.0	10.0	Ao	2	..	21695b
47	3188	6.5	-8 8	9.1	10.2	K2	3	..	19138b	97	3129	6.8	-59 46	9.0	8.6	Ao	4	..	21695b
48	7552	6.5	-33 56	8.9	8.9	Ao	3	..	41410b	98	2091	6.8	-61 14	9.6	9.6	B9	2	..	38798b
49	6501	6.5	-41 2	8.1	8.6	Go	3	..	9377b	99	2090	6.8	-61 38	10.1	10.1	Ao	1	..	38798b
50	6584	6.5	-47 21	8.8	8.9	G5	5	..	38416b	100	714	6.8	-76 4	9.2	9.2	Ao	2	..	21530b

THE HENRY DRAPER CATALOGUE.

97300

11^h 6^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	635	m. 6.9	° 52	6.74	7.52	G5	6	..	37554i	51	3144	m. 7.1	° 16	8.4	9.2	G5	3	..	21695b
2	1446	6.9	+55 26	6.48	6.54	A2	10	..	37717i	52	2615	7.1	-60 36	9.3	9.3	B8	1	..	38798b
3	2220	6.9	+34 48	8.92	9.92	Ko	2	..	37572i	53	1104	7.1	-73 7	9.2	10.3	K2	1	..	40298b
4	2242	6.9	+30 46	8.4	9.4	Ko	5	..	37572i	54	1853	7.2	+47 13	8.7	9.3	Go	2	..	38648i
5	2329	6.9	+22 35	9.0	10.2	K5	2	..	37504i	55	2327	7.2	+24 3	9.3	9.7	F5	1	..	37505i
6	2302	6.9	+14 51	8.49	8.83	F2	5	3,3-	4905m	56	2417	7.2	-0 38	8.5	9.3	G5	5	..	19228b
7	2471	6.9	+8 44	9.7	10.5	G5	1	..	21675b	57	3325	7.2	-7 6	9.3	9.6	Fo	3	..	19138b
8	3229	6.9	-9 21	8.9	10.0	K2	2	..	19140b	58	3101	7.2	-8 57	7.52	7.86	F2	10	..	19138b
9	3198	6.9	-19 37	7.88	8.8	Ao	5	..	41220b	59	3369	7.2	-20 41	8.7	9.1	Ko	3	..	41220b
10	6565	6.9	-41 8	7.6	8.6	K2	3	..	9377b	60	6591	7.2	-47 56	10.9	10.0	B9	3	..	38416b
11	6824	6.9	-46 19	9.2	9.5	A2	5	..	38416b	61	4398	7.2	-53 35	10.0	10.0	B9	3	..	37600b
12	6250	6.9	-48 18	8.2	9.4	Ma	3	..	38416b	62	4400	7.2	-53 36	10.0	10.0	Ao	4	..	37600b
13	5915	6.9	-49 37	8.0	7.9	A3	7	..	38416b	63	4381	7.2	-54 13	10.0	10.0	B8	3	..	37600b
14	5916	6.9	-49 55	9.8	10.2	Ko	3	..	38416b	64	4202	7.2	-55 39	10.0	10.0	B9	5	..	37600b
15	5421	6.9	-52 7	8.3	8.7	G5	7	..	37600b	65	4287	7.2	-56 14	9.2	10.2	Ko	3	..	37600b
16	4304	6.9	-52 39	10.1	10.4	Fo	2	..	37600b	66	4286	7.2	-57 0	10.1	10.2	A2	3	..	37600b
17	4394	6.9	-54 1	8.0	8.9	F8	6	..	37662b	67	3255	7.2	-58 41	8.9	9.5	Ko	2	..	40090b
18	4391	6.9	-57 59	9.0	10.0	Go	2	..	21695b	68	3253	7.2	-58 48	8.9	8.7	B	3	..	40090b
19	2606	6.9	-60 34	9.1	8.9	B5	3	..	38798b	69	2095	7.2	-62 6	9.6	9.6	B8	1	..	38798b
20	1636	6.9	-64 52	8.3	8.7	F5	4	..	38834b	70	1428	7.3	+53 55	8.2	9.0	G5	3	..	37717i
21	1309	7.0	+56 56	7.80	8.14	F2	5	..	37717i	71	2164	7.3	+36 22	7.9	8.9	Ko	6	..	37572i
22	2221	7.0	+35 19	7.17	8.17	Ko	6	..	37572i	72	2569	7.3	+20 39	10.2	10.8	Go	2	..	37504i
23	2568	7.0	+20 17	10.0	11.0	K	1	..	37504i	73	2418	7.3	-0 15	8.63	8.71	A3	4	..	19228b
24	2328	7.0	+11 39	8.5	9.0	F8	2	..	38319i	74	3201	7.3	-16 55	8.9	9.5	Go	3	..	41220b
25	3320	7.0	-13 35	8.3	9.4	K2	5	..	19140b	75	3371	7.3	-20 46	9.3	9.1	Go	4	R	41220b
26	9581	7.0	-24 44	8.9	11.3	K5	2	..	40450b	76	6831	7.3	-46 13	10.0	10.8	K5	1	..	38416b
27	7272	7.0	-34 16	8.6	8.8	F5	4	..	41410b	77	4311	7.3	-52 17	9.2	10.2	Ko	2	..	37600b
28	6590	7.0	-47 32	10.5	10.4	A2	1	..	38416b	78	4313	7.3	-52 48	9.9	10.2	F2	3	..	37600b
29	5919	7.0	-49 24	8.3	8.2	Fo	6	..	38416b	79	4401	7.3	-53 17	9.9	9.9	Ao	6	..	37600b
30	4379	7.0	-54 54	9.7	10.0	F2	2	..	37662b	80	3157	7.3	-59 38	9.0	9.0	Ao	3	..	21695b
31	4283	7.0	-56 52	10.0	10.0	Ao	4	..	37600b	81	3156	7.3	-59 50	9.0	8.6	B2	4	..	21154b
32	380	7.1	+78 16	8.6	9.2	Go	2	..	37465i	82	1912	7.3	-62 40	9.8	9.8	B8	2	..	38798b
33	2168	7.1	+41 5	8.7	8.7	Ao	4	0,4	38658i	83	1206	7.3	-71 41	9.4	9.7	F2	1	..	39198b
34	2162	7.1	+36 21	6.32	6.88	Go	8	0,8R	38658i	84	2121	7.4	+32 6	10.0	10.8	G5	3	..	37572i
35	2118	7.1	+32 4	9.3	10.3	Ko	2	..	37572i	85	2121	7.4	+30 5	9.2	10.0	G5	2	..	37572i
36		7.1	+25 11			F5				86	2429	7.4	+19 26	8.3	9.3	Ko	2	..	37504i
37	2352	7.1	+25 11	8.3	8.7	A5	5	R	37505i	87	2230	7.4	+16 45	8.49	9.67	K5	3	3,2	4905m
38	2303	7.1	+15 26	10.0	10.6	Go	2	..	4905m	88	2229	7.4	+16 39	10.0	11.0	K	1	..	4905m
39	2369	7.1	+13 45	8.4	9.5	K2	5	0,3	4905m	89	2228	7.4	+16 16	10.3	11.3	Ko	1	..	4905m
40	2758	7.1	+6 8	8.0	8.1	A5	6	..	19228b	90	3235	7.4	-9 36	8.6	8.9	F2	7	..	19140b
41	3046	7.1	-11 52	9.3	9.4	A5	3	..	19140b	91	3236	7.4	-10 6	8.96	9.46	F8	3	..	19140b
42	3367	7.1	-20 48	8.1	8.8	G5	5	..	41220b	92	3368	7.4	-12 18	9.3	10.5	K5	1	..	19140b
43	8519	7.1	-25 35	6.98	8.2	Go	6	..	11310b	93	8847	7.4	-31 53	6.46	8.5	Ma	..	..	56,129
44	8412	7.1	-26 16	6.54	7.8	G5	8	..	11310b	94	6806	7.4	-43 8	8.4	9.0	A5	4	..	9376b
45	6983	7.1	-38 8	8.2	9.5	K2	1	..	9377b	95	4319	7.4	-52 39	8.9	9.7	Ko	6	..	37600b
46	6985	7.1	-38 52	8.9	9.2	Go	2	..	9377b	96	3261	7.4	-58 51	8.9	8.4	Ao	6	..	40090b
47	6964	7.1	-39 33	8.9	9.2	F8	2	..	9377b	97	3160	7.4	-59 10	8.4	9.3	K2	3	..	21695b
48	4310	7.1	-52 57	9.1	10.2	K5	3	..	37600b	98	3165	7.4	-59 46	7.0	7.0	B9	5	0,9	43030b
49	4201	7.1	-55 43	9.9	10.3	F5	3	..	37600b	99	3166	7.4	-59 53		8.6	B	6	R	21695b
50	4394	7.1	-57 56	8.7	10.0	Ko	1	..	21695b	100	3164	7.4	-59 54	7.68	8.3	B			

ANNALS OF HARVARD COLLEGE OBSERVATORY.

97400

11^h 7^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1639	m. 7.4	° -65 5	9.2	9.8	Go	2	..	38798b	51	4405	m. 7.7	° -57 53	7.2	8.3	Mb	..	0,2	28,205
2	1673	7.4	-67 56	9.2	9.2	Ao	2	..	40075b	52	2631	7.7	-60 53	9.2	9.2	B8	3	..	38798b
3	708	7.5	+66 15	8.1	9.1	Ko	2	..	38285i	53	1674	7.7	-68 7	9.2	9.2	Ao	2	..	40075b
4	1229	7.5	+61 3	9.0	10.0	Ko	3	..	37716i	54	1211	7.7	-71 56	9.1	9.7	Go	1	..	39198b
5	1802	7.5	+49 59	9.1	10.1	Ko	1	..	38648i	55	1508	7.8	+55 56	7.48	7.82	F2	5	..	37717i
6	1701	7.5	+46 45	8.2	8.5	F2	5	..	37726i	56	1476	7.8	+53 24	7.9	8.9	Ko	4	..	37717i
7	2260	7.5	+10 24	8.5	9.6	K2	2	..	38319i	57	2328	7.8	+17 19	9.0	9.8	G5	1	..	37504i
8	3066	7.5	- 3 33	8.9	9.9	Ko	2	..	19228b	58	2231	7.8	+16 21	10.3	10.9	Go	2	..	4905m
9	3027	7.5	- 4 53	10.5	10.6	A2	2	R	19138b	59	2418	7.8	+ 5 46	8.5	9.1	Go	3	..	21675b
10	3237	7.5	- 9 26	8.9	9.2	Fo	6	..	19140b	60	3326	7.8	- 6 24	9.1	10.1	Ko	2	..	19138b
11	3321	7.5	-17 57	6.09	6.09	Ao	10	..	41220b	61	3321	7.8	-13 23	7.05	7.55	F8	9	..	19140b
12	8911	7.5	-29 14	7.21	8.8	K5	5	..	11310b	62	3222	7.8	-16 13	10.0	10.5	F8	1	..	41220b
13	6771	7.5	-45 43	6.52	6.7	Ao	9	..	9376b	63	3324	7.8	-17 15	9.3	10.1	G5	1	..	41220b
14	6596	7.5	-47 33	9.1	10.0	Go	3	..	38416b	64	9801	7.8	-23 17	8.9	9.5	Ko	3	..	40450b
15	5784	7.5	-50 53	9.6	9.4	Go	3	..	38416b	65	7286	7.8	-34 51	7.8	8.0	A2	6	..	41410b
16	4402	7.5	-53 23	10.0	10.0	Ao	5	..	37600b	66	6602	7.8	-47 47	10.2	10.9	Ma	1	..	38416b
17	1641	7.5	-65 54	9.3	9.3	Ao	1	..	40075b	67	5931	7.8	-49 16	9.4	10.2	B9	5	..	38416b
18	1334	7.5	-70 44	9.0	9.1	A2	2	..	40075b	68	5786	7.8	-50 59	7.9	9.0	Ko	4	..	38416b
19	524	7.6	+72 19	9.5	10.0	F8	4	..	37554i	69	4403	7.8	-53 23	9.3	10.3	Ko	3	..	37600b
20	1355	7.6	+59 41	8.86	9.28	F5	2	..	37716i	70	4407	7.8	-57 39	9.1	10.0	F5	2	..	21695b
21	2304	7.6	+15 16	10.0	11.1	K2	1	..	4905m	71	3268	7.8	-58 16	8.8	8.6	B2	3	..	21695b
22	2532	7.6	+ 0 53	8.44	8.94	F8	3	..	13370b	72	1336	7.8	-70 53	6.22	8.0	Ko	8	..	40075b
23	3102	7.6	- 9 11	9.3	10.4	K2	2	..	19138b	73	810	7.8	-73 55	7.6	8.1	F8	8	..	40298b
24	3282	7.6	-14 57	10.0	10.6	Go	2	..	41220b	74	715	7.8	-75 34	8.7	9.5	G5	3	..	40298b
25	3281	7.6	-15 10	9.31	10.31	Ko	2	..	41220b	75	271	7.8	-85 52	9.4	10.2	G5	2	..	22238b
26	3322	7.6	-17 22	9.1	9.1	Ao	4	..	41220b	76	1993	7.9	+27 43	7.78	8.85	K2	3	..	37505i
27	3127	7.6	-18 27	9.1	9.4	F2	2	..	41220b	77	2431	7.9	+19 37	9.7	10.1	F5	1	..	37504i
28	3374	7.6	-21 12	6.52	8.1	Ko	10	..	40450b	78	2359	7.9	+13 48	9.5	10.3	G5	2	..	4905m
29	9588	7.6	-24 34	11.1	11.3	F8	2	..	40450b	79	3067	7.9	- 3 18	8.7	9.7	Ko	3	..	19228b
30	6598	7.6	-47 35	8.5	9.3	Ko	5	..	38416b	80	9804	7.9	-23 18	9.7	10.5	Ko	1	..	40450b
31	5435	7.6	-51 58	9.2	8.8	Ao	7	..	37600b	81	8524	7.9	-25 15	9.25	9.8	K2	4	..	40450b
32	4325	7.6	-52 17	9.6	10.8	K5	1	..	37600b	82	6840	7.9	-46 25	6.86	8.4	F8	7	..	38416b
33	4322	7.6	-52 42	9.4	10.2	G5	2	..	37600b	83	4207	7.9	-55 40	8.9	10.3	Ma	2	..	37662b
34	2629	7.6	-60 9	8.03	8.3	B2	5	..	38798b	84	2638	7.9	-60 33	9.0	8.9	B3	4	..	38798b
35	1859	7.6	-63 21	9.3	9.3	B9	2	..	38798b	85	2103	7.9	-61 13	8.4	9.3	K2	3	..	38834b
36	396	7.6	-83 54	7.89	9.4	Ko	4	0,3	45456b	86	947	8.0	+62 48	7.77	8.55	G5	4	..	37716i
37	270	7.6	-85 12	7.15	7.0	Ao	6	1,7	11010b	87	1656	8.0	+51 44	9.1	9.9	G5	1	..	38648i
38	1314	7.7	+60 18	9.2	9.5	F	2	..	37716i	88	2206	8.0	+33 59	6.75	7.75	Ko	8	..	37572i
39	1854	7.7	+47 30	9.2	10.0	G5	1	..	38648i	89	2123	8.0	+30 5	8.4	8.9	F8	5	..	37572i
40	1992	7.7	+27 36	7.83	8.11	Fo	5	..	37505i	90	2305	8.0	+15 43	10.0	11.0	Ko	1	..	4905m
41	2533	7.7	+ 0 45	8.54	9.54	Ko	3	..	13370b	91	2420	8.0	- 0 51	8.5	9.3	G5	7	..	19228b
42	2419	7.7	- 0 22	8.53	8.95	F5	4	..	19228b	92	3328	8.0	- 6 43	9.2	10.4	K5	2	..	19138b
43	3028	7.7	- 4 35	7.90	8.90	Ko	7	..	19138b	93	3104	8.0	- 8 48	9.6	9.7	A3	4	..	19138b
44	3323	7.7	-18 8	8.3	9.3	Ko	3	..	41220b	94	3051	8.0	-12 15	7.28	7.56	Fo	9	..	19140b
45	3128	7.7	-19 9	8.5	9.1	F5	3	..	41220b	95	6263	8.0	-48 33	5.67	6.3	A2	..	0,10	56,129
46	9025	7.7	-30 35	7.8	8.8	F5	4	..	11310b	96	5447	8.0	-51 11	8.3	8.8	Ao	7	..	38416b
47	6836	7.7	-46 48	10.2	10.0	A2	2	..	38416b	97	4405	8.0	-53 55	9.2	10.3	K2	3	..	37600b
48	5440	7.7	-52 7	9.0	9.7	K2	5	..	37600b	98	3279	8.0	-58 25	8.9	8.6	B9	4	..	21695b
49	4386	7.7	-54 58	9.26	9.9	G5	3	..	37662b	99	2643	8.0	-60 46	9.2	9.3	B5	3	..	38798b
50	4292	7.7	-56 37	8.4	9.1	B9	5	..	37662b	100	1922	8.1	+48 37	9.5	10.5	Ko	1	..	38648i

THE HENRY DRAPER CATALOGUE.

97500

11^h 8^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2170	8.1	+41 38	6.49	7.49	Ko	8	0,7	38658i	51	5793	8.4	-50 16	10.5	10.2	F8	1	..	38416b
2	2333	8.1	+10 59	7.40	8.47	K2	3	..	38319i	52	5456	8.4	-51 37	10.9	10.1	A3	4	..	37600b
3	2463	8.1	+5 1	8.5	9.7	K5	1	..	13370b	53	4337	8.4	-52 25	8.6	9.6	Ko	4	..	37600b
4	3194	8.1	-7 41	9.3	9.7	F5	3	..	19138b	54	4336	8.4	-52 54	10.5	10.5	Ao	2	..	37600b
5	3206	8.1	-16 43	8.1	9.2	K2	3	..	41220b	55	4390	8.4	-54 44	10.2	10.3	A5	3	..	37600b
6	8529	8.1	-25 25	11.6	11.3	K2	1	..	40450b	56	4304	8.4	-56 23	7.9	8.2	Ao	2	0,7	43030b
7	7566	8.1	-33 52	8.3	9.1	Go	3	..	41410b	57	3193	8.4	-59 8	7.2	7.4	B5	2	..	43030b
8	6400	8.1	-41 38	9.0	8.9	Fo	3	0,2-	9376b	58	2662	8.4	-60 23	8.7	8.6	A2	7	..	38798b
9	4208	8.1	-55 42	9.1	9.5	Ko	3	..	37662b	59	2663	8.4	-60 29	9.5	9.6	A2	1	..	38798b
10	4209	8.1	-55 58	9.1	9.4	B9	4	..	37662b	60	2408	8.5	+40 31	8.0	8.6	Go	4	..	38658i
11	4299	8.1	-56 33	10.0	10.0	Ao	5	..	37600b	61	2572	8.5	+20 41	6.94	7.50	Go	7	..	37504i
12	4414	8.1	-58 2	8.7	8.8	B9	6	..	21695b	62	2432	8.5	+19 9	8.5	9.5	Ko	2	..	37504i
13	1803	8.2	+50 25	7.42	8.42	Ko	5	0,4	38648i	63	3286	8.5	-14 44	9.3	10.1	G5	4	..	41220b
14	3329	8.2	-6 40	9.8	10.1	Fo	2	..	19138b	64	6783	8.5	-45 56	9.2	10.1	Ko	2	..	38416b
15	3195	8.2	-7 31	9.6	10.1	F8	1	..	19138b	65	6851	8.5	-47 8	9.6	10.3	Ko	2	..	38416b
16	3324	8.2	-13 16	8.9	8.9	Ao	6	..	19140b	66	4391	8.5	-54 49	8.8	10.0	Ko	3	..	37662b
17	3326	8.2	-17 37	8.1	8.7	Go	5	..	41220b	67	4306	8.5	-56 53	9.9	10.0	A3	4	..	37600b
18	3202	8.2	-20 0	8.3	9.4	Ko	3	..	41220b	68	3288	8.5	-58 52	9.0	10.0	Ko	2	..	21695b
19	4388	8.2	-55 7	10.0	10.6	Go	1	..	37600b	69	2030	8.6	+49 18	8.32	8.74	F5	3	..	38648i
20	4418	8.2	-57 30	10.0	10.0	Ao	2	..	21695b	70	2361	8.6	+13 47	9.3	9.6	Fo	5	2,2-	4905m
21	3286	8.2	-58 18	9.5	9.3	B3	2	..	21695b	71	2419	8.6	+6 30	8.5	9.7	K5	1	..	21675b
22	1641	8.2	-64 40	7.7	7.5	Bo	5	..	38798b	72	3223	8.6	-15 25	8.8	9.4	Go	2	..	41220b
23	2353	8.3	+25 39	8.6	9.0	F5	3	..	37505i	73	3205	8.6	-19 55	8.3	9.1	A3	5	..	41220b
24	2306	8.3	+15 14	10.3	10.9	G	1	..	4905m	74	9811	8.6	-23 52	9.7	10.1	Ko	2	..	40450b
25	2371	8.3	+13 5	9.3	9.4	A3	3	..	4905m	75	7572	8.6	-33 24	8.2	9.1	Ko	2	..	41410b
26	3207	8.3	-16 52	9.1	9.1	Ao	3	..	41220b	76	6872	8.6	-43 50	5.84	7.4	K5	..	0,8	56,129
27	9598	8.3	-24 14	10.4	11.5	Ko	1	..	40450b	77	7144	8.6	-44 34	9.1	9.5	Ao	1	..	9376b
28	8531	8.3	-25 55	8.3	7.8	A2	7	..	11310b	78	6614	8.6	-47 40	11.5	10.8	R5	1	..	38416b
29	8919	8.3	-29 18	9.6	9.1	A2	3	..	11310b	79	5459	8.6	-51 44	9.2	10.1	Ko	4	..	37600b
30	6848	8.3	-46 38	9.6	9.5	Fo	4	..	38416b	80	4307	8.6	-56 29	8.4	9.1	B8	5	..	37662b
31	5452	8.3	-52 3	10.2	9.7	Ao	4	..	37600b	81	2665	8.6	-60 11	8.98	9.0	B	3	..	38798b
32	4389	8.3	-54 25	9.2	10.3	K2	2	..	37662b	82	2119	8.6	-61 56	10.1	10.1	B9	1	..	38798b
33	4420	8.3	-58 6	8.4	8.8	B5	5	..	21695b	83	1860	8.6	-63 37	5.52	5.47	B8	..	0,10	56,129
34	3190	8.3	-59 46	4.73	5.15	F5p	..	3,8R	28,206	84	456	8.7	+74 1	7.18	8.36	K5	7	R	37742i
35	1338	8.3	-70 40	7.2	7.2	B9	10	..	40075b	85	2761	8.7	+0 29	5.40	5.40	Ao	..	0,R	56,88
36	814	8.3	-73 52	9.6	9.6	Ao	3	..	40298b	86	2497	8.7	-1 17	9.3	10.3	Ko	3	..	19228b
37	526	8.4	+72 33	7.34	7.32	B9	7	..	37554i	87	3223	8.7	-10 30	9.3	10.5	K5	1	..	19138b
38	2245	8.4	+30 56	9.7	10.5	G5	2	..	37572i	88	3288	8.7	-14 27	8.8	9.9	K2	4	..	41220b
39	2307	8.4	+15 44	9.7	10.3	Go	2	..	4905m	89	3208	8.7	-17 0	9.3	9.8	F8	2	..	41220b
40	2475	8.4	+8 29	8.5	9.5	Ko	7	..	21675b	90	3098	8.7	-22 27	7.28	7.4	A2	10	..	40450b
41	2474	8.4	+3 18	8.9	9.3	F5	3	..	21675b	91	8925	8.7	-29 23	9.3	9.7	A5	2	..	11310b
42	3030	8.4	-4 55	8.3	9.5	K5	3	..	19138b	92	5943	8.7	-49 35	7.08	7.5	A2	8	..	38416b
43	3264	8.4	-21 30	7.7	9.4	Ma	4	..	40450b	93	5462	8.7	-52 4	11.5	10.5	F5	2	..	37600b
44	8533	8.4	-25 14	11.3	10.7	F5	2	..	40450b	94	4340	8.7	-52 17	7.7	8.7	Ko	8	..	37600b
45	7942	8.4	-32 44	8.9	9.4	G5	2	..	41410b	95	4216	8.7	-55 52	7.6	9.4	K2	4	..	37662b
46	7103	8.4	-37 58	8.9	9.7	G5	1	..	9377b	96	3293	8.7	-58 13	9.0	8.9	B5	2	..	21695b
47	6850	8.4	-46 31	6.9	7.3	F8	8	..	38416b	97	3299	8.7	-58 21	8.4	8.7	B5	6	..	21695b
48	6612	8.4	-47 33	9.8	9.6	Go	5	..	38416b	98	3300	8.7	-58 27	9.8	9.8	Ao	2	..	21695b
49	6610	8.4	-47 40	10.9	10.5	Ao	2	..	38416b	99	2120	8.7	-61 53	8.9	9.3	B9	3	..	38798b
50	5937	8.4	-49 11	6.32	7.5	Ko	9	..	38416b	100	1678	8.7	-67 28	8.0	7.9	B5	6	..	40075b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

97600

11^h 8^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1479	8.8	+53 29	7.34	8.12	G5	5	..	37717i	51	4350	9.1	-52 41	5.91	7.5	K2	8	..	9442b
2	2332	8.8	+24 23	7.96	7.94	B9	7	..	37505i	52	4399	9.1	-54 45	9.8	10.3	F8	3	..	37600b
3	2298	8.8	+21 4	2.58	2.66	A3	..	R	2523c	53	4220	9.1	-55 59	9.2	10.0	G5	4	..	37600b
4	2362	8.8	+14 11	10.7	11.7	Ko	1	..	4905m	54	4317	9.1	-56 30	8.3	8.3	Ao	3	0,8	4303ob
5	2476	8.8	+ 8 37	5.90	6.90	Ko	7	..	38319i	55	4442	9.1	-57 57	9.4	9.4	Ao	3	..	21695b
6	2475	8.8	+ 2 49	6.79	7.13	F2	8	..	13370b	56	4439	9.1	-58 3	8.6	8.6	Ao	7	..	21695b
7	9602	8.8	-24 54	11.3	10.9	Go	1	..	40450b	57	2068	9.2	+43 54	7.78	8.28	F8	4	..	37726i
8	8430	8.8	-26 18	8.9	10.1	K2	1	..	11310b	58	2184	9.2	+26 16	7.57	8.57	Ko	5	..	37505i
9	6587	8.8	-41 7	7.8	8.6	Fo	4	..	9377b	59	2466	9.2	+17 57	8.9	9.4	F8	2	..	37504i
10	6619	8.8	-47 47	9.6	9.8	F8	4	..	38416b	60	2467	9.2	+ 4 51	8.31	9.38	K2	3	..	13370b
11	5466	8.8	-51 39	10.5	9.9	Ao	3	..	37600b	61	2539	9.2	+ 1 26	8.3	9.4	K2	2	..	13370b
12	4344	8.8	-52 45	9.7	9.7	Ao	4	..	37600b	62	3197	9.2	- 7 47	7.38	8.73	Ma	8	..	19138b
13	4413	8.8	-53 15	10.1	10.2	A2	3	..	37600b	63	3210	9.2	-16 20	7.22	8.00	G5	7	..	41220b
14	4411	8.8	-53 38	9.9	10.0	A2	4	..	37600b	64	3211	9.2	-16 53	9.1	9.9	G5	3	..	41220b
15	4217	8.8	-55 33	10.0	10.0	Ao	3	..	37662b	65	7950	9.2	-32 14	9.0	10.3	K5	1	..	41410b
16	3301	8.8	-58 33	9.0	8.9	A2	6	..	21695b	66	6415	9.2	-41 43	8.7	9.2	Go	1	..	9377b
17	1550	8.8	-66 33	8.1	8.1	B9	8	..	38798b	67	5953	9.2	-49 32	9.4	9.7	K2	1	..	38416b
18	1214	8.8	-71 12	7.5	7.5	B9	7	..	40298b	68	4322	9.2	-56 13	10.2	10.2	Ao	2	..	37600b
19	356	8.9	+78 51	7.08	8.08	Ko	5	..	37465i	69	3314	9.2	-58 22	8.5	9.0	Ao	7	..	21695b
20	3331	8.9	- 6 53	9.3	10.1	G5	3	..	19138b	70	3315	9.2	-59 4	5.98	5.9	B3	..	0,7	28,206
21	3238	8.9	- 9 44	8.3	9.3	Ko	7	..	19140b	71	3213	9.2	-59 33	8.4	10.1	Ma	2	..	21695b
22	8928	8.9	-29 32	8.3	10.0	K2	1	..	11310b	72	2688	9.2	-60 31	9.6	9.6	B8	1	..	38798b
23	7004	8.9	-38 14	8.6	9.2	F8	1	..	9377b	73	2127	9.2	-61 24	9.8	9.8	Ao	1	..	38798b
24	6622	8.9	-47 17	8.0	8.0	F2	8	..	38416b	74	1552	9.2	-66 18	8.6	8.7	A2	7	..	38798b
25	6276	8.9	-48 53	10.5	10.1	Go	2	..	38416b	75	457	9.3	+74 33	9.2	10.4	K5	2	..	37742i
26	4313	8.9	-56 13	9.9	10.0	A2	3	..	37600b	76	2421	9.3	+ 5 48	8.3	9.3	Ko	3	..	13370b
27	4311	8.9	-56 28	9.0	10.0	Ko	3	..	37662b	77	2540	9.3	+ 1 26	9.3	10.3	K	1	..	13370b
28	3307	8.9	-59 6	8.9	9.0	Ao	5	..	21695b	78	2499	9.3	- 1 53	8.5	8.8	Fo	4	..	19228b
29	2677	8.9	-60 34	9.5	9.6	B5	2	..	38798b	79	3333	9.3	- 7 0	9.6	10.4	G5	2	..	19138b
30	1921	8.9	-62 56	8.9	9.0	A2	2	..	38834b	80	3242	9.3	- 9 18	8.7	9.1	F5	7	..	19140b
31	223	8.9	-86 50	9.7	10.5	G5	1	..	22238b	81	3378	9.3	-20 58	9.6	10.3	G5	2	..	41220b
32	350	9.0	+80 5	8.13	9.13	Ko	3	..	37465i	82	3100	9.3	-22 29	10.2	10.0	Go	2	..	40450b
33	2234	9.0	+15 59	3.41	3.41	Ao	..	R	6458c	83	9042	9.3	-30 50	8.4	9.7	K5	1	..	11310b
34	3196	9.0	- 8 3	9.6	9.9	F2	2	..	19138b	84	6825	9.3	-42 26	9.0	8.9	A2	2	..	9376b
35	3289	9.0	-14 54	8.1	8.4	Fo	7	..	41220b	85	6879	9.3	-44 1	8.8	8.9	A3	4	..	9376b
36	3206	9.0	-19 23	8.9	9.7	F8	2	..	41220b	86	6629	9.3	-47 34	9.2	9.8	Ko	5	..	38416b
37	8431	9.0	-26 11	8.9	8.9	Ao	6	..	11310b	87	5956	9.3	-49 27	9.8	9.6	Ao	3	..	38416b
38	6279	9.0	-48 22	9.8	9.9	F5	2	..	38416b	88	5472	9.3	-51 15	7.6	8.8	Ko	5	..	38416b
39	5950	9.0	-49 27	9.8	10.1	G5	1	..	38416b	89	4355	9.3	-52 18	6.92	7.5	A2	6	R	9442b
40	4397	9.0	-54 53	8.9	9.4	B8	6	..	37662b	90	4400	9.3	-54 58	8.06	8.8	B9	6	..	37662b
41	1215	9.0	-71 33	9.3	9.7	F5	1	..	40298b	91	4402	9.3	-54 58	8.3	8.6	A2	7	..	37662b
42	817	9.0	-73 40	7.7	8.1	F5	6	..	40298b	92	2128	9.3	-61 42	9.8	9.8	Ao	1	..	38798b
43	2573	9.1	+20 34	7.9	8.7	G5	5	..	37504i	93	1682	9.3	-67 58	8.6	9.7	K2	1	..	40075b
44	2330	9.1	+17 28	8.4	8.5	A5	3	..	37504i	94	1498	9.3	-69 34	8.5	9.7	K5	1	..	40075b
45	2420	9.1	+ 6 31	8.5	9.0	F8	8	..	21675b	95	1342	9.3	-70 59	8.7	9.2	F8	3	..	40298b
46	3376	9.1	-12 15	8.3	9.5	K5	4	..	19140b	96	1217	9.3	-72 7	8.7	9.9	K5	1	..	40298b
47	3131	9.1	-19 2	9.3	9.9	Go	2	..	41220b	97	2331	9.4	+16 53	8.4	9.4	Ko	3	..	37504i
48	7949	9.1	-32 43	9.5	10.0	G5	1	..	41410b	98	2422	9.4	+ 6 32	7.9	8.9	Ko	9	..	21675b
49	6792	9.1	-45 56	9.6	9.8	Ao	3	..	38416b	99	9607	9.4	-24 56	10.1	11.3	Ko	1	..	40450b
50	5469	9.1	-51 58	9.6	10.1	Ko	3	..	37600b	100	8433	9.4	-26 32	8.3	9.2	Ko	4	..	11310b

THE HENRY DRAPER CATALOGUE.

97700

11^h 9^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7954	m. 9.4	° 32 26	8.4	9.5	K2	2	..	4141ob	51	3208	m. 9.7	° 20 7	8.63	9.1	Ko	3	..	4122ob
2	6881	9.4	-43 9	7.8	8.0	Ko	5	..	9376b	52	3269	9.7	-21 38	10.0	10.6	G5	1	..	4045ob
3	6286	9.4	-48 17	10.9	10.2	Ao	2	..	38416b	53	9824	9.7	-24 8	9.9	11.8	K5	1	..	4045ob
4	5807	9.4	-51 2	10.5	9.9	A3	2	..	38416b	54	8542	9.7	-25 31	8.3	9.2	Mb	4	..	1131ob
5	4357	9.4	-52 45	10.0	10.1	A3	2	..	3760ob	55	7078	9.7	-35 44	8.6	8.8	A3	5	..	4141ob
6	4404	9.4	-54 50	9.7	9.7	B9	2	..	37662b	56	6428	9.7	-41 27	8.9	9.0	Ko	2	..	9377b
7	2698	9.4	-60 12	8.23	8.7	B3	4	..	38798b	57	6803	9.7	-45 30	10.0	10.0	Ao	2	..	38416b
8	819	9.4	-73 29	9.0	9.8	G5	2	..	40298b	58	6804	9.7	-45 38	9.6	10.0	A5	2	..	38416b
9	273	9.4	-85 22	9.0	10.0	Ko	1	..	13459b	59	4456	9.7	-58 5	8.9	9.5	F2	3	..	21695b
10	1230	9.5	+61 18	8.2	9.2	Ko	3	..	37716i	60	3327	9.7	-58 40	9.6	9.5	B5	2	..	21695b
11	1903	9.5	+45 36	7.54	8.10	Go	5	..	38648i	61	1930	9.7	-62 31	9.5	9.5	B8	2	..	38798b
12	2355	9.5	+25 14	9.6	10.8	K5	1	..	37505i	62	1500	9.7	-70 5	8.06	7.5	B9	6	..	40075b
13	2334	9.5	+22 0	8.2	8.7	F8	4	..	37504i	63	1360	9.8	+58 45	8.08	9.15	K2	4	..	37716i
14	2373	9.5	+13 10	8.6	9.8	K5	2	..	38319i	64	2091	9.8	+33 32	9.0	10.0	Ko	3	..	37572i
15	2427	9.5	+7 26	10.3	10.7	F5	2	..	21675b	65	3292	9.8	-14 42	9.6	10.4	G5	1	..	1914ob
16	2422	9.5	-0 43	6.76	7.76	Ko	9	..	19228b	66	8440	9.8	-26 46	9.1	8.7	G5	4	..	1131ob
17	3133	9.5	-18 59	8.8	9.2	F5	3	..	4122ob	67	7588	9.8	-33 41	8.6	10.2	K5	1	..	4141ob
18	3268	9.5	-22 12	9.8	10.3	Ko	3	..	4045ob	68	4365	9.8	-52 59	9.6	10.4	G5	2	..	3760ob
19	8937	9.5	-29 21	8.9	9.1	A3	3	..	1131ob	69	4408	9.8	-54 36	8.4	8.9	Go	7	..	37662b
20	8935	9.5	-29 38	9.1	9.5	Ao	3	..	1131ob	70	4409	9.8	-54 52	10.2	10.2	Ao	3	..	3760ob
21	7584	9.5	-34 5	8.2	9.5	K5	2	..	4141ob	71	823	9.9	+65 27	7.07	8.07	Ko	4	..	37554i
22	6418	9.5	-41 8	8.3	9.0	Ko	2	..	9377b	72	1316	9.9	+60 19	8.9	9.3	F5	4	..	37716i
23	6632	9.5	-48 3	7.22	8.4	K2	7	..	38416b	73	1925	9.9	+48 2	7.38	7.52	A5	7	..	37726i
24	5808	9.5	-50 45	8.6	8.7	F2	5	..	38416b	74	2169	9.9	+35 57	10.0	10.8	G5	2	..	37572i
25	4360	9.5	-52 14	8.7	9.7	Ko	3	..	3760ob	75	2123	9.9	+32 42	9.7	10.7	Ko	2	..	37572i
26	4451	9.5	-58 4	9.9	9.9	B9	2	..	21695b	76	2124	9.9	+32 9	8.1	9.1	Ko	5	..	37572i
27	3320	9.5	-58 36	9.5	9.5	B8	3	..	21695b	77	2000	9.9	+26 59	8.6	9.6	Ko	3	..	37505i
28	1928	9.5	-62 51	8.8	9.6	G5	1	..	38798b	78	2322	9.9	+23 39	4.87	6.22	Ma	..	0.9	1818c
29	1107	9.5	-72 32	10.0	10.0	Ao	1	..	39198b	79	2423	9.9	-0 26	8.9	10.1	K5	1	..	19228b
30	527	9.6	+71 53	9.1	10.1	Ko	3	..	37554i	80	3226	9.9	-10 41	8.8	9.2	F5	5	..	1914ob
31	2219	9.6	+38 7	8.1	8.9	G5	6	E	37572i	81	3135	9.9	-18 15	8.7	9.0	Fo	3	..	4122ob
32	2222	9.6	+35 8	9.2	9.8	Go	3	..	37572i	82	3102	9.9	-22 33	9.2	9.8	K2	3	..	4045ob
33	2357	9.6	+25 31	8.8	9.8	Ko	2	..	37505i	83	3101	9.9	-23 7	8.7	9.1	Go	5	..	4045ob
34	3243	9.6	-9 22	8.9	9.9	Ko	5	..	1914ob	84	7952	9.9	-27 46	8.4	9.8	K2	1	..	1131ob
35	8939	9.6	-30 3	9.20	9.1	Fo	3	..	1131ob	85	7953	9.9	-27 58	8.7	9.3	F8	2	..	1131ob
36	7305	9.6	-34 26	8.6	9.1	K5	3	..	4141ob	86	7081	9.9	-35 32	10.2	9.9	A5	1	..	4141ob
37	7075	9.6	-35 42	9.5	9.3	G5	1	..	4141ob	87	7082	9.9	-35 34	8.2	9.6	K2	1	..	4141ob
38	6595	9.6	-41 5	9.2	9.2	A2	2	..	9377b	88	6597	9.9	-40 21	8.9	9.2	Fo	1	..	9377b
39	5478	9.6	-51 36	10.2	10.5	Ko	2	..	3760ob	89	6834	9.9	-42 18	7.54	7.8	Fo	8	..	9376b
40	4361	9.6	-52 48	10.0	10.1	A3	3	..	3760ob	90	6641	9.9	-47 41	10.5	10.1	G5	2	..	38416b
41	4362	9.6	-52 52	9.4	10.4	Ko	2	..	3760ob	91	5484	9.9	-51 29	9.8	9.7	A2	3	..	38416b
42	4406	9.6	-54 17	10.0	10.3	Fo	2	..	3760ob	92	4230	9.9	-55 30	7.9	8.0	B8	2	3,7	4303ob
43	4405	9.6	-54 19	9.2	10.6	Ma	2	..	3760ob	93	4229	9.9	-55 34	10.0	10.0	A	2	..	37662b
44	4225	9.6	-56 5	8.5	9.4	Ko	3	..	37662b	94	4231	9.9	-55 55	9.2	10.2	Ko	2	..	3760ob
45	4223	9.6	-56 8	9.7	10.0	F2	3	..	37662b	95	4463	9.9	-57 36	9.7	9.7	Ao	4	..	21695b
46	4454	9.6	-57 22	8.4	9.1	F8	4	..	21695b	96	1554	9.9	-66 12	9.6	9.6	Ao	2	..	38798b
47	4452	9.6	-57 44	10.0	10.0	Ao	2	..	21695b	97	1926	10.0	+48 38	9.1	9.7	Go	2	..	38648b
48	1998	9.7	+26 48	8.4	8.8	F5	3	..	37505i	98	1707	10.0	+46 24	8.8	9.8	Ko	2	..	38648b
49	3075	9.7	-4 9	9.1	9.9	G5	1	..	19228b	99	1979	10.0	+28 7	7.13	7.27	A5	8	..	37505i
50	3214	9.7	-16 38	8.9	9.9	Ko	2	..	4122ob	100	2429	10.0	+7 34	9.5	10.3	G5	2	..	21675b

97800

11^h 10^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2425	10.0	+ 6 0	8.5	8.8	Fo	5	..	21675b	51	1646	10.2	- 65 21	8.3	8.5	B3	5	..	38798b
2	9827	10.0	- 23 56	9.7	10.6	K5	2	..	4045ob	52	1109	10.2	- 72 33	8.3	9.7	Ma	2	..	40298b
3	9614	10.0	- 25 1	9.90	11.0	Ko	2	..	4045ob	53	421	10.3	+ 75 54	7.70	8.70	Ko	3	..	37465i
4	5817	10.0	- 50 32	9.2	10.2	K5	1	..	38416b	54	654	10.3	+ 69 45	8.14	8.70	Go	4	..	37554i
5	4465	10.0	- 57 15	7.9	8.2	Ao	3	1,7	4303ob	55	1480	10.3	+ 53 19	6.34	6.68	F2	9	..	37717i
6	4467	10.0	- 57 44	8.9	9.4	Ko	3	..	21695b	56	2072	10.3	+ 44 33	9.5	10.1	Go	3	..	37726i
7	3340	10.0	- 58 41	8.8	9.2	F5	5	..	21695b	57	2096	10.3	+ 43 1	8.0	8.5	F8	5	..	37726i
8	2713	10.0	- 61 2	7.4	8.3	Ao	4	..	38834b	58	2409	10.3	+ 40 14	8.4	9.5	K2	2	..	38658i
9	1684	10.0	- 67 14	9.3	9.3	Ao	1	..	40075b	59	2468	10.3	+ 5 30	8.0	8.0	Ao	3	..	1337ob
10	426	10.1	+ 77 15	9.5	10.5	Ko	1	..	38333i	60	3040	10.3	- 4 24	8.7	9.8	K2	4	..	19138b
11	1362	10.1	+ 59 40	7.91	7.91	Ao	6	..	37716i	61	3336	10.3	- 6 29	9.2	10.0	G5	4	..	19138b
12	1708	10.1	+ 46 24	8.6	9.7	K2	4	..	37726i	62	3381	10.3	- 12 25	8.7	9.9	K5	2	..	19140b
13	1709	10.1	+ 46 0	9.1	9.7	Go	2	..	38648i	63	3215	10.3	- 16 57	8.8	9.4	Go	4	..	4122ob
14	2095	10.1	+ 42 52	8.1	8.9	G5	3	..	37726i	64	3141	10.3	- 19 5	6.78	6.78	Ao	9	..	4122ob
15	2403	10.1	+ 2 37	8.5	9.5	Ko	2	..	1337ob	65	7019	10.3	- 38 47	9.6	9.0	Ao	2	..	9377b
16	3114	10.1	- 8 34	8.9	9.9	Ko	4	..	19138b	66	6899	10.3	- 43 11	6.36	8.1	K5	7	..	9376b
17	3060	10.1	- 11 45	8.9	10.0	K2	4	..	19140b	67	5823	10.3	- 50 16	9.42	10.1	Ko	1	..	38416b
18	3295	10.1	- 14 37	9.3	10.5	K5	1	..	19140b	68	4380	10.3	- 52 34	9.7	10.2	F8	2	..	3760ob
19	3137	10.1	- 19 4	8.5	9.1	Go	3	..	4122ob	69	4412	10.3	- 54 24	10.3	10.3	Ao	3	..	3760ob
20	3271	10.1	- 21 33	10.2	10.6	F8	1	..	4045ob	70	4337	10.3	- 56 39	9.1	9.4	B9	6	..	3760ob
21	3272	10.1	- 21 47	9.1	9.4	F2	4	..	4045ob	71	3357	10.3	- 58 17	8.9	8.9	B8	5	..	21695b
22	6431	10.1	- 41 38	9.0	9.2	A2	2	..	9377b	72	3355	10.3	- 58 50	8.8	9.0	Fo	5	..	21695b
23	5974	10.1	- 49 21	10.2	9.1	A2	4	..	38416b	73	1865	10.3	- 63 12	9.3	9.3	Ao	2	..	38798b
24	4376	10.1	- 52 59	8.2	8.7	Go	7	..	3760ob	74	2577	10.4	+ 20 10	8.9	9.3	F5	4	..	37504i
25	4421	10.1	- 53 48	9.2	10.0	G5	1	..	37662b	75	2333	10.4	+ 17 33	9.7	10.3	Go	2	..	37504i
26	4420	10.1	- 53 54	8.7	9.1	Ao	6	..	37662b	76	3227	10.4	- 11 2	7.29	8.64	Ma	8	..	19140b
27	4410	10.1	- 54 47	9.6	10.6	Ko	2	..	3760ob	77	3142	10.4	- 18 54	9.1	9.4	Fo	2	..	4122ob
28	4232	10.1	- 55 11	8.26	8.2	B8	7	..	37662b	78	3273	10.4	- 21 52	9.8	10.1	F5	2	..	4045ob
29	3346	10.1	- 58 19	9.0	8.9	Ao	5	..	21695b	79	9831	10.4	- 24 0	9.6	10.1	K2	4	..	4045ob
30	1936	10.1	- 63 2	9.6	9.6	Ao	2	..	38798b	80	8548	10.4	- 26 5	11.1	11.0	K5	1	..	4045ob
31	1317	10.2	+ 60 34	9.5	10.5	Ko	2	..	37716i	81	7022	10.4	- 38 56	6.72	7.6	Ao	7	..	9377b
32	2170	10.2	+ 36 23	8.2	9.0	G5	5	..	37572i	82	6901	10.4	- 43 21	10.0	9.5	Fo	2	..	9376b
33	2311	10.2	+ 15 40	7.37	8.37	Ko	5	0,4	38319i	83	6814	10.4	- 45 47	9.2	9.8	F5	3	..	38416b
34	2376	10.2	+ 12 52	8.4	8.8	F5	4	..	38319i	84	5489	10.4	- 51 48	9.6	9.3	G5	5	..	3760ob
35	2339	10.2	+ 11 29	8.7	9.7	Ko	1	..	38319i	85	4382	10.4	- 52 8	11.5	10.5	Ko	1	..	3760ob
36	3335	10.2	- 6 40	9.1	9.2	A2	6	..	19138b	86	4381	10.4	- 53 4	10.4	10.5	A3	1	..	3760ob
37	3380	10.2	- 12 45	9.3	9.7	F5	3	..	19140b	87	1647	10.4	- 65 43	9.3	9.3	B9	3	..	38798b
38	8545	10.2	- 25 13	11.6	10.2	Go	3	..	4045ob	88	381	10.5	+ 77 51	8.8	9.3	F8	3	..	37465i
39	9056	10.2	- 30 30	8.9	10.0	K5	1	..	1131ob	89	1318	10.5	+ 60 28	6.66	6.74	A3	9	..	37716i
40	7964	10.2	- 32 46	6.98	7.4	F2	8	..	4141ob	90	2225	10.5	+ 35 9	8.6	9.2	Go	5	..	37572i
41	6898	10.2	- 43 16	8.6	8.9	Go	3	..	9376b	91	2469	10.5	+ 5 1	7.9	8.3	F5	4	..	1337ob
42	6897	10.2	- 43 39	8.3	9.2	K2	2	..	9376b	92	2541	10.5	+ 1 7	8.3	9.3	Ko	3	..	1337ob
43	7168	10.2	- 44 45	8.4	8.4	Ao	5	..	9376b	93	3242	10.5	- 5 37	9.6	10.0	F5	6	..	19138b
44	6645	10.2	- 47 19	10.9	10.7	Ko	1	..	38416b	94	3381	10.5	- 20 50	9.8	10.3	G5	1	..	4122ob
45	6297	10.2	- 48 37	8.3	8.4	F2	6	..	38416b	95	8735	10.5	- 28 58	8.2	9.2	B9	5	..	1131ob
46	4377	10.2	- 52 48	9.6	10.4	G5	1	..	3760ob	96	7121	10.5	- 37 53	8.9	8.2	F5	5	..	9377b
47	4423	10.2	- 53 30	9.9	10.0	A2	3	..	37662b	97	4236	10.5	- 55 15	10.00	9.9	Fo	4	..	3760ob
48	3351	10.2	- 58 29	8.7	8.6	Bo	7	..	21695b	98	4340	10.5	- 56 58	9.3	9.9	Go	2	..	21695b
49	1937	10.2	- 62 51	9.4	9.4	Ao	2	..	38798b	99	3361	10.5	- 58 41	10.0	10.0	Ao	2	..	21695b
50	1939	10.2	- 63 8	9.4	9.4	B8	1	..	38798b	100	1452	10.5	- 68 59	8.0	9.2	K5	1	..	40075b

THE HENRY DRAPER CATALOGUE.

97900

11^h 10^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	720	10.5	-75 15	7.38	7.9	A2	7	..	40298b	51	252	10.9	+83 54	8.7	10.1	Ma	2	..	37465i
2	624	10.5	-78 50	9.1	9.4	F2	4	..	21530b	52	2002	10.9	+26 45	9.0	9.8	G5	2	..	37505i
3	276	10.5	-85 41	6.65	9.2	Ma	5	..	13459b	53	3247	10.9	-10 5	7.66	8.73	K2	8	..	19140b
4	438	10.6	+74 53	7.57	8.57	Ko	4	0,3	37742i	54	3274	10.9	-21 45	9.2	10.0	Go	3	..	40450b
5	2034	10.6	+49 24	8.8	9.6	G5	2	..	38648i	55	8449	10.9	-26 22	9.6	10.4	K2	3	..	40450b
6	2172	10.6	+41 5	8.9	9.3	F5	2	..	38658i	56	8739	10.9	-29 0	8.3	9.2	F5	3	..	11310b
7	2367	10.6	+13 51	5.48	6.48	Ko	9	R	38319i	57	6438	10.9	-42 4	7.5	8.0	F5	7	..	9376b
8	3062	10.6	-11 44	8.5	8.6	A5	8	..	19140b	58	6908	10.9	-43 20	9.2	9.6	Ko	1	..	9376b
9	3227	10.6	-15 49	8.2	8.3	A3	7	..	41220b	59	6907	10.9	-43 51	7.8	8.3	Ao	7	..	9376b
10	6655	10.6	-47 40	10.2	10.4	Ko	2	..	38416b	60	6822	10.9	-46 0	8.5	9.6	K2	3	..	38416b
11	5828	10.6	-50 48	8.4	8.1	A5	6	..	38416b	61	4387	10.9	-52 16	8.5	9.0	G5	7	..	37600b
12	4414	10.6	-54 53	10.3	10.3	Ao	2	..	37600b	62	4428	10.9	-53 53	9.4	10.2	G5	1	..	37662b
13	3366	10.6	-58 38	8.9	8.6	Bo	7	..	21695b	63	4245	10.9	-55 15	9.36	10.0	Ko	4	..	37600b
14	1233	10.7	+61 8	9.1	9.1	Ao	3	..	37716i	64	4489	10.9	-57 36	8.9	9.2	B8	3	..	21695b
15	2426	10.7	+ 6 10	9.5	10.0	F8	1	..	21675b	65	4488	10.9	-57 38	8.8	9.1	G5	3	..	21695b
16	2406	10.7	+ 2 37	8.9	9.3	F5	1	..	13370b	66	3372	10.9	-58 52	8.9	8.9	Bo	6	..	21695b
17	2502	10.7	- 1 46	8.7	8.7	B9	6	..	19228b	67	3373	10.9	-59 2	9.4	9.5	A5	3	..	21695b
18	3063	10.7	-12 3	6.66	8.01	Ma	8	..	19140b	68	3255	10.9	-59 29	9.0	9.6	Ao	3	..	21695b
19	3382	10.7	-20 37	10.0	10.3	Ao	1	..	41220b	69	3259	10.9	-59 37	8.0	8.0	B3	6	..	21695b
20	8876	10.7	-31 17	9.4	9.5	F	2	R	41410b	70	1941	10.9	-62 9	9.3	10.3	Ko	1	..	38798b
21	6818	10.7	-45 43	9.4	9.5	Go	3	..	38416b	71	1689	10.9	-67 47	7.3	8.5	K5	5	..	40075b
22	5497	10.7	-51 59	10.2	9.6	Ao	4	..	37600b	72	520	11.0	+72 54	9.5	10.1	G	2	..	37554i
23	4426	10.7	-54 5	8.9	10.0	Ko	2	..	37662b	73	2098	11.0	+42 54	8.7	9.2	F8	4	..	37726i
24	4415	10.7	-54 37	10.2	10.3	A2	2	..	37600b	74	2359	11.0	+24 46	9.54	10.10	G	1	..	37505i
25	4242	10.7	-55 13	9.36	10.0	Ko	3	..	37600b	75	2408	11.0	+ 2 7	8.9	9.4	F8	2	..	13370b
26	4238	10.7	-55 41	10.3	10.3	Ao	2	..	37600b	76	3119	11.0	- 8 21	7.48	8.48	Ko	8	..	19138b
27	4486	10.7	-57 43	7.3	7.6	Ao	3	1,7	43030b	77	3214	11.0	-19 37	9.1	10.1	Ko	2	..	41220b
28	4482	10.7	-58 3	9.7	9.7	Ao	3	..	21695b	78	9630	11.0	-24 27	9.9	10.1	Ao	4	..	40450b
29	3368	10.7	-58 14	8.6	9.6	Ko	2	..	21695b	79	9065	11.0	-30 18	8.40	8.8	Fo	5	..	11310b
30	3369	10.7	-58 31	9.8	9.8	B9	1	..	21695b	80	6660	11.0	-47 43	8.6	8.7	G5	6	..	38416b
31	2728	10.7	-60 31	8.9	9.2	B8	4	..	38798b	81	5985	11.0	-50 45	9.4	9.6	Ko	2	..	38416b
32	2727	10.7	-60 54	9.1	9.5	B9	3	..	38798b	82	5502	11.0	-51 39	10.5	10.1	Ao	2	..	37600b
33	1347	10.7	-70 36	9.1	9.1	Ao	2	..	40298b	83	4429	11.0	-53 29	9.5	9.5	Ao	4	..	37662b
34	1364	10.8	+59 29	8.4	9.2	G5	5	..	37716i	84	4417	11.0	-54 11	8.8	9.2	B9	4	..	37662b
35	1363	10.8	+59 14	9.1	9.9	G5	3	..	37716i	85	3377	11.0	-58 10	10.1	10.1	Ao	1	..	21695b
36	2125	10.8	+32 9	9.0	10.0	Ko	3	..	37572i	86	1501	11.0	-69 49	7.76	7.3	B8	6	..	40075b
37	2379	10.8	+13 24	6.54	6.82	Fo	7	2,8	16941i	87	1110	11.0	-72 25	9.3	9.7	F5	1	..	39198b
38	2378	10.8	+13 9	6.73	6.73	Ao	8	..	38319i	88	838	11.1	+63 48	9.2	9.8	G	2	E	37716i
39	3330	10.8	-13 25	9.8	10.8	Ko	1	..	19140b	89	1807	11.1	+50 1	5.97	6.97	Ko	8	0,8	37717i
40	3104	10.8	-22 22	7.20	7.3	A2	10	..	40450b	90	2425	11.1	- 0 12	9.3	9.6	F2	3	..	19228b
41	8553	10.8	-25 16	9.45	9.8	Fo	5	..	40450b	91	3312	11.1	- 2 55	7.28	7.11	B3	..	5,9	56,88
42	7324	10.8	-34 58	8.4	8.8	F5	4	..	41410b	92	3066	11.1	-12 1	9.6	9.7	A5	2	..	19140b
43	7126	10.8	-37 42	8.0	8.1	Ko	5	..	9377b	93	3275	11.1	-21 40	10.5	10.3	F8	1	..	40450b
44	6606	10.8	-40 31	7.2	8.0	K2	4	..	9377b	94	9836	11.1	-23 46	10.6	10.1	Go	2	..	40450b
45	6607	10.8	-40 57	7.8	8.1	Ao	6	..	9377b	95	9633	11.1	-24 46	9.1	9.8	F5	4	..	40450b
46	6656	10.8	-47 22	11.5	10.3	F5	4	..	38416b	96	7976	11.1	-32 10	8.56	9.7	K5	2	..	41410b
47	6309	10.8	-49 5	9.8	9.9	F5	2	..	38416b	97	7093	11.1	-35 46	7.8	9.6	Ma	1	..	41410b
48	3254	10.8	-59 34	8.5	8.9	Ao	3	..	21695b	98	7027	11.1	-38 47	7.23	8.0	G5	5	..	9377b
49	2730	10.8	-60 8	9.48	9.5	A2	2	..	38798b	99	6314	11.1	-48 29	10.5	10.2	Fo	3	..	38416b
50	2732	10.8	-60 43	8.8	9.2	Oe	1	R	38798b	100	4388	11.1	-52 31	9.9	9.9	B9	3	..	37600b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

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11^h 11^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	4249	11.1	-56 7	8.7	9.1	B9	5	..	37662b	51	5513	11.5	-51 27	10.5	9.4	A2	2	..	38416b
2	4350	11.1	-56 58	10.0	10.0	B9	1	..	21695b	52	4419	11.5	-54 40	7.3	8.2	A5	7	..	37662b
3	1223	11.1	-71 34	8.6	9.4	G5	3	..	40298b	53	1561	11.5	-66 52	8.6	9.6	Ko	1	..	40075b
4	1111	11.1	-72 39	9.3	10.4	K2	1	..	39198b	54	1235	11.6	+60 49	6.74	7.74	Ko	8	..	37716i
5	366	11.2	+81 31	8.6	9.6	Ko	2	..	37465i	55	1659	11.6	+51 42	9.0	10.0	Ko	1	..	38648i
6	2075	11.2	+43 49	8.8	9.6	G5	2	..	37726i	56	2315	11.6	+12 24	8.5	9.0	F8	2	..	38319i
7	3313	11.2	-3 13	8.9	9.9	Ko	2	..	19228b	57	2427	11.6	-0 31	8.9	9.3	F5	1	..	19228b
8	3143	11.2	-19 3	8.9	9.9	Ko	1	..	41220b	58	3315	11.6	-3 6	4.58	4.72	A5	..	R	56,88
9	8883	11.2	-31 50	8.7	8.8	A3	4	..	41410b	59	3229	11.6	-10 56	9.2	9.5	Fo	6	..	19140b
10	6443	11.2	-41 13	8.7	9.2	Ko	1	..	9377b	60	3218	11.6	-20 12	8.88	10.0	F5	2	..	41220b
11	6912	11.2	-44 6	9.0	9.2	A2	3	..	9376b	61	9636	11.6	-25 7	11.8	10.7	A2	2	..	40450b
12	4418	11.2	-54 52	9.4	9.4	B9	3	..	37662b	62	7968	11.6	-27 35	7.36	8.4	F5	8	..	11310b
13	4351	11.2	-57 6	8.5	9.1	Ko	5	..	37662b	63	6327	11.6	-48 16	10.9	10.5	A5	1	..	38416b
14	4494	11.2	-57 23	var.	var.	Nb	1	R	21695b	64	4422	11.6	-54 24	8.0	8.8	Ko	5	..	37662b
15	3265	11.2	-59 58	9.1	9.5	Ao	3	..	21695b	65	4256	11.6	-55 28	9.9	10.0	A3	4	..	37600b
16	2221	11.3	+37 57	8.6	9.0	F5	2	..	38658i	66	2151	11.6	-61 34	10.1	10.1	Ao	1	..	38798b
17	2436	11.3	+19 10	8.5	9.1	G	3	..	37504i	67	1457	11.6	-68 15	8.9	8.9	B9	2	..	40075b
18	3340	11.3	-6 36	9.8	10.3	F8	4	..	19138b	68	2443	11.7	+4 29	9.3	9.8	F8	2	..	21675b
19	3215	11.3	-20 9	7.78	8.5	Ko	6	..	41220b	69	3086	11.7	-3 24	8.7	8.8	A2	6	..	19228b
20	3276	11.3	-21 28	8.5	9.7	Ko	4	..	40450b	70	9844	11.7	-23 56	10.4	11.0	K	1	..	40450b
21	6848	11.3	-42 48	10.2	9.8	Fo	2	..	41420b	71	6833	11.7	-45 36	10.0	10.3	Ao	2	..	38416b
22	6664	11.3	-47 22	6.88	7.2	Ao	10	..	38416b	72	4399	11.7	-52 19	8.7	9.0	A2	7	..	37600b
23	5508	11.3	-51 26	8.9	9.3	Ko	2	..	38416b	73	2155	11.7	-61 43	9.6	9.6	B9	2	..	38798b
24	4430	11.3	-54 2	10.1	10.2	A2	1	..	37662b	74	2156	11.7	-61 52	10.3	10.4	A2	2	R	38798b
25	4352	11.3	-56 48	6.60	7.5	A2	5	0,9	43030b	75	1928	11.8	+48 29	7.80	8.80	Ko	3	..	37726i
26	4498	11.3	-57 26	8.0	9.4	K2	4	..	21695b	76	1906	11.8	+45 13	8.6	9.4	G5	4	..	37726i
27	1649	11.3	-65 58	8.0	9.0	Ko	5	R	38798b	77	2100	11.8	+43 21	9.1	9.7	G	3	..	37726i
28		11.3	-65 58			A2	5			78	2340	11.8	+21 51	8.2	9.0	G5	2	E	37504i
29	2191	11.4	+42 16	7.82	8.82	Ko	4	..	37726i	79	3044	11.8	-4 37	8.9	9.3	F5	5	..	19138b
30	2337	11.4	+22 25	9.3	9.8	F8	1	..	37505i	80	3068	11.8	-12 8	8.7	9.7	Ko	3	..	19140b
31	2380	11.4	+13 0	8.3	9.3	Ko	3	..	38319i	81	3278	11.8	-21 20	8.5	9.4	A5	6	..	40450b
32	3277	11.4	-21 28	8.5	10.0	Ma	3	..	40450b	82	9640	11.8	-24 30	10.6	11.3	G5	1	..	40450b
33	9841	11.4	-23 30	8.5	8.8	A2	6	..	40450b	83	4434	11.8	-53 54	9.0	9.5	F2	4	..	37662b
34	9840	11.4	-24 5	9.6	10.1	A2	2	..	40450b	84	2158	11.8	-61 33	10.0	10.0	B8	2	..	38798b
35	7130	11.4	-37 17	8.6	8.8	A5	2	..	9377b	85	1651	11.8	-65 17	8.98	9.8	K5	1	..	38798b
36	6609	11.4	-40 28	7.22	7.3	Ao	8	..	9377b	86	949	11.9	+62 48	9.1	9.2	A3	3	..	37716i
37	6897	11.4	-46 46	7.5	8.1	Ko	8	..	38416b	87	2192	11.9	+42 19	8.4	9.4	Ko	2	..	37726i
38	4251	11.4	-55 28	8.5	8.5	Ao	7	0,2	37662b	88	3344	11.9	-6 35	6.03	6.31	Fo	9	..	19228b
39	4354	11.4	-56 13	10.2	10.2	Ao	2	..	37600b	89	3253	11.9	-9 52	9.3	10.3	Ko	3	..	19140b
40	4500	11.4	-57 24	9.7	9.7	B8	2	..	21695b	90	3334	11.9	-13 58	7.9	9.0	K2	7	..	41220b
41	3388	11.4	-58 20	8.4	8.6	F2	7	..	21695b	91	9846	11.9	-23 58	10.1	10.1	F8	2	..	40450b
42	3389	11.4	-58 37	9.6	9.6	Ao	2	..	21695b	92	8462	11.9	-26 41	7.24	8.3	G5	7	..	11310b
43	1560	11.4	-66 11	8.8	9.3	F8	3	..	38798b	93	7337	11.9	-34 33	8.1	8.8	Ko	3	..	41232b
44	639	11.5	+68 25	8.6	8.9	F2	4	..	37554i	94	7088	11.9	-37 7	8.9	9.4	Ao	2	..	9377b
45	2128	11.5	+32 7	9.7	10.3	G	1	..	37572i	95	6853	11.9	-42 52	9.6	9.6	K2	2	..	41420b
46	3085	11.5	-3 25	6.80	6.88	A3	..	1,9	56,88	96	6837	11.9	-45 20	6.51	7.6	F2	9	..	9376b
47	3384	11.5	-13 7	9.6	10.0	F5	3	..	19140b	97	1946	11.9	-62 52	9.3	9.3	B8	2	..	38798b
48	7605	11.5	-34 7	6.82	6.9	A2	8	..	41232b	98	2036	12.0	+49 37	8.77	9.27	F8	2	..	38648i
49	7131	11.5	-37 40	8.9	10.3	K2	1	..	9377b	99	2229	12.0	+35 22	9.6	10.6	Ko	3	..	37572i
50	6670	11.5	-47 21	9.2	8.7	A2	4	..	38416b	100	2230	12.0	+35 1	10.4	11.2	G5	2	..	37572i

THE HENRY DRAPER CATALOGUE.

98100

11^h 12^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2249	12.0	+31 39	9.7	10.1	F5	3	..	37572i	51	4364	12.3	-57 3	8.9	9.7	Fo	3	..	37662b
2	2504	12.0	-1 28	9.0	9.5	F8	2	..	19228b	52	2176	12.4	+41 22	8.8	8.8	Ao	3	..	38658i
3	3247	12.0	-6 8	9.3	10.1	G5	1	..	19138b	53	1983	12.4	+27 54	6.80	6.86	A2	8	..	37505i
4	3345	12.0	-6 36	9.8	10.1	F2	6	..	19138b	54	2189	12.4	+26 1	7.30	7.36	A2	8	..	37505i
5	3205	12.0	-7 58	9.1	10.1	Ko	2	..	19138b	55	2362	12.4	+25 37	7.84	8.84	Ko	5	..	37505i
6	3386	12.0	-12 32	8.8	9.8	Ko	2	..	19140b	56	2474	12.4	+4 52	8.06	8.84	G5	3	..	13370b
7	6447	12.0	-41 17	9.0	10.0	Ko	2	..	41420b	57	3232	12.4	-10 20	8.91	9.98	K2	3	..	19140b
8	6839	12.0	-46 2	9.8	10.3	K2	2	..	38416b	58	3230	12.4	-11 7	9.8	10.3	F8	3	..	19140b
9	5522	12.0	-51 46	10.0	9.7	A3	3	..	37600b	59	3147	12.4	-18 17	8.8	9.3	F8	2	..	41220b
10	4436	12.0	-53 59	10.3	10.3	Ao	3	..	37600b	60	9850	12.4	-23 50	8.5	9.4	G5	5	..	40450b
11	3401	12.0	-59 7	8.7	10.1	Ma	2	..	21695b	61	7146	12.4	-37 28	6.24	6.8	Ao	7	..	9377b
12	2755	12.0	-61 8	9.1	10.7	K5	1	..	38798b	62	6843	12.4	-45 52	8.2	8.1	A2	8	..	38416b
13	1948	12.0	-62 24	10.1	10.1	Ao	1	..	38798b	63	6844	12.4	-45 59	8.5	8.9	G5	5	..	38416b
14	1366	12.1	+59 35	9.5	10.1	Go	1	..	37716i	64	5855	12.4	-50 33	9.2	9.1	F2	3	..	38416b
15	2095	12.1	+33 25	9.3	10.1	G5	3	..	37572i	65	5532	12.4	-51 42	9.6	9.9	Ko	3	..	37600b
16	2329	12.1	+23 22	8.3	9.4	K2	1	..	37505i	66	4433	12.4	-54 41	10.2	10.2	Ao	3	..	37600b
17	2337	12.1	+17 29	8.6	9.4	G5	3	..	37504i	67	4267	12.4	-55 34	9.6	9.7	A2	4	..	37600b
18	2409	12.1	+2 34	5.44	6.62	K5	9	..	13370b	68	3407	12.4	-58 18	9.6	9.6	B8	3	..	21695b
19	3387	12.1	-12 36	9.2	10.4	K5	1	..	19140b	69	2765	12.4	-60 17	9.73	9.2	B9	4	..	38798b
20	3297	12.1	-14 33	8.8	9.6	G5	3	..	41220b	70	1697	12.4	-67 41	8.5	9.3	G5	1	..	40075b
21	3231	12.1	-15 45	9.3	10.3	Ko	1	..	41220b	71	2190	12.5	+26 30	8.3	9.3	Ko	2	..	37505i
22	3389	12.1	-20 21	8.98	10.1	Ko	1	..	41220b	72	2384	12.5	+12 57	7.9	9.0	K2	4	..	38319i
23	3107	12.1	-23 2	9.8	10.1	F8	2	..	40450b	73	3045	12.5	-4 51	9.3	9.8	F8	3	..	19138b
24	8568	12.1	-25 34	8.7	9.5	A3	4	..	11310b	74	3221	12.5	-20 13	8.18	8.8	Fo	5	..	41220b
25	7339	12.1	-34 23	7.00	7.7	Ko	6	..	41232b	75	6618	12.5	-40 51	7.10	7.0	A2	8	..	9377b
26	7142	12.1	-37 51	6.85	7.4	Ko	7	..	41415b	76	6450	12.5	-41 23	6.90	6.3	Ao	9	..	9377b
27	6335	12.1	-48 54	8.8	9.6	Ko	2	..	38416b	77	6936	12.5	-43 16	7.9	8.4	A2	6	..	9376b
28	5527	12.1	-51 20	8.8	9.0	F2	4	..	38416b	78	6342	12.5	-49 6	8.5	8.7	F8	4	..	38416b
29	4437	12.1	-53 15	9.5	10.0	F8	1	..	38406b	79	5533	12.5	-52 6	7.8	8.4	F8	9	..	37600b
30	4438	12.1	-53 41	9.7	9.7	B8	3	..	37662b	80	4434	12.5	-54 14	6.96	7.3	F2	8	0,3	37662b
31	4428	12.1	-54 12	10.3	10.3	Ao	3	..	37600b	81	4435	12.5	-54 43	10.3	10.3	Ao	3	..	37600b
32	4427	12.1	-55 0	7.77	8.8	G5	6	..	37662b	82	1461	12.5	-68 18	8.8	8.8	Ao	3	..	40075b
33	3289	12.1	-60 1	8.98	8.9	G5	4	..	21695b	83	439	12.6	+75 37	8.02	9.02	Ko	2	..	37465i
34	1694	12.1	-67 39	7.8	9.0	K5	4	..	40075b	84	840	12.6	+64 42	8.55	8.55	Ao	3	..	37346i
35	1458	12.1	-68 48	8.9	8.9	Ao	2	..	40075b	85	2172	12.6	+37 26	8.8	9.3	F8	2	..	38658i
36	2209	12.2	+33 49	9.6	10.2	Go	3	..	37572i	86	2171	12.6	+35 59	8.8	9.6	G5	5	..	37572i
37	5851	12.2	-50 23	7.92	8.4	F2	8	..	38416b	87	3234	12.6	-10 34	9.3	10.4	K2	3	..	19140b
38	4442	12.2	-53 57	10.6	10.6	Ao	2	..	37600b	88	6923	12.6	-46 25	10.5	10.4	Ko	1	..	38416b
39	4439	12.2	-54 8	10.0	10.3	F2	3	..	37600b	89	6682	12.6	-47 35	10.0	9.8	Fo	4	..	38416b
40	4263	12.2	-55 14	9.7	9.7	B9	3	..	37662b	90	4408	12.6	-52 33	7.4	8.1	Ko	4	..	38406b
41	4264	12.2	-55 43	8.9	10.0	Ko	5	..	37600b	91	4437	12.6	-54 37	9.6	9.7	A2	3	..	37662b
42	2761	12.2	-60 43	9.8	9.8	Ao	2	..	38798b	92	4436	12.6	-55 4	7.56	7.6	Ao	8	0,3	37662b
43	657	12.2	-76 58	8.6	8.6	B9	6	..	21530b	93	4369	12.6	-56 55	8.7	9.5	A3	4	..	21695b
44	3124	12.3	-8 24	9.1	9.9	G5	4	..	19138b	94	2769	12.6	-60 32	9.1	9.6	F2	4	..	38798b
45	8571	12.3	-25 45	11.1	10.4	F8	2	..	40450b	95	1510	12.6	-69 21	7.2	7.2	Ao	7	..	40075b
46	7616	12.3	-33 49	8.9	10.0	K5	1	..	41232b	96	691	12.7	+67 13	7.12	7.40	Fo	6	..	37554i
47	6935	12.3	-43 44	9.1	9.2	A3	3	..	9376b	97	2427	12.7	+6 11	8.9	9.2	Fo	2	..	21675b
48	6010	12.3	-49 53	9.8	9.6	A3	2	..	38416b	98	2546	12.7	+1 20	8.5	9.5	Ko	2	..	13370b
49	4405	12.3	-52 57	9.1	9.0	Ao	3	..	38406b	99	2506	12.7	-2 2	9.1	9.5	F5	3	..	19228b
50	4365	12.3	-56 9	9.6	9.9	Fo	2	..	21695b	100	3248	12.7	-5 19	9.50	10.28	G5	2	..	19138b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

98200

11^h 12^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	8573	12.7	-25 39	10.4	9.8	Ao	2	..	11310b	51	3224	13.0	-20 6	9.03	10.3	Ko	1	..	41220b
2	6942	12.7	-43 20	8.6	9.2	G5	2	..	9376b	52	3282	13.0	-21 54	8.1	8.2	A5	8	..	40450b
3	5859	12.7	-50 51	8.5	8.4	Ao	6	..	38416b	53	8476	13.0	-26 30	10.8	10.2	Go	2	..	40450b
4	5535	12.7	-51 47	8.9	10.2	K5	2	..	37600b	54	6687	13.0	-47 48	10.0	10.0	F8	3	..	38416b
5	5537	12.7	-52 0	10.9	10.2	Ao	3	..	37600b	55	6691	13.0	-48 7	10.5	10.5	A5	1	..	38416b
6	4445	12.7	-53 10	9.4	10.0	Go	1	..	38406b	56	4418	13.0	-52 15	8.5	8.7	F5	7	..	37600b
7	4439	12.7	-54 56	9.4	10.0	Go	3	..	37600b	57	4417	13.0	-52 56	9.1	9.0	A2	3	..	38406b
8	4372	12.7	-57 2	9.7	9.7	Ao	4	..	21695b	58	4443	13.0	-54 14	9.5	9.9	F5	4	..	37600b
9	3412	12.7	-58 31	8.1	9.6	K5	3	..	21695b	59	4376	13.0	-56 28	9.9	10.0	A2	2	..	21695b
10	2774	12.7	-60 23	9.0	8.9	B3	5	..	38798b	60	2783	13.0	-60 58	10.0	10.0	B8	2	..	38798b
11	2775	12.7	-60 38	10.1	10.1	Ao	2	..	38798b	61	1172	13.1	+62 43	7.02	8.02	Ko	7	..	37716i
12	1567	12.7	-66 22	9.0	9.0	B9	4	..	38798b	62	2098	13.1	+33 38	3.71	4.71	Ko	..	R	1831c
13	1228	12.7	-71 42	9.1	9.7	Go	2	..	40298b	63	2250	13.1	+31 25	8.8	9.6	G5	2	..	37572i
14	1511	12.8	+56 44	7.55	8.55	Ko	5	..	37717i	64	2192	13.1	+25 47	9.2	9.6	F5	2	..	37505i
15	1713	12.8	+46 25	8.8	9.6	G5	2	..	37726i	65	2344	13.1	+21 50	8.6	9.6	Ko	1	..	37505i
16	2096	12.8	+33 38	8.61	9.11	F8	4	..	37572i	66	3391	13.1	-12 28	9.1	10.2	K2	1	..	19140b
17	2343	12.8	+22 44	6.96	7.74	G5	5	0.5 R	37770i	67	3223	13.1	-17 2	8.3	9.7	Ma	3	..	41220b
18	3280	12.8	-21 36	7.76	8.8	Mb	8	..	40450b	68	9860	13.1	-23 41	11.1	10.3	F8	1	..	40450b
19	9857	12.8	-23 25	8.1	8.5	G5	7	..	40450b	69	9659	13.1	-24 28	10.8	11.0	F8	2	..	40450b
20	7996	12.8	-32 59	6.85	7.4	F8	8	..	41232b	70	8575	13.1	-25 23	11.6	10.1	Fo	4	..	40450b
21	7345	12.8	-34 11	6.45	6.7	F2	8	..	41232b	71	7102	13.1	-36 38	8.2	8.2	F8	5	3,3	41410b
22	7152	12.8	-37 50	8.6	8.8	G5	3	..	41415b	72	7101	13.1	-36 50	9.2	8.8	A5	3	2,2-	41410b
23	6867	12.8	-42 51	9.6	10.4	K2	1	..	41420b	73	4419	13.1	-53 1	9.5	9.6	A2	2	..	38406b
24	6929	12.8	-46 11	10.0	9.5	F8	2	..	38416b	74	4444	13.1	-54 24	9.9	10.0	A2	4	..	37600b
25	4440	12.8	-54 17	9.3	10.3	Ko	2	..	37600b	75	4273	13.1	-55 52	9.5	9.5	B8	3	..	21695b
26	4441	12.8	-54 32	10.2	10.3	A5	3	..	37600b	76	4377	13.1	-56 26	10.0	10.0	Ao	2	..	21695b
27	3417	12.8	-58 52	8.9	8.9	B9	5	..	21695b	77	4529	13.1	-57 36	9.4	9.4	B9	3	..	21695b
28	423	12.9	+76 43	8.6	8.9	Fo	4	..	37465i	78	3424	13.1	-58 33	6.9	7.0	Ao	5	..	43030b
29	841	12.9	+64 3	8.4	8.7	F2	4	E	37716i	79	3423	13.1	-58 40	9.4	9.3	B5	3	..	21695b
30	2132	12.9	+32 6	4.87	5.43	Go	..	R	1679c	80	2319	13.2	+12 32	6.50	6.50	Ao	9	..	38319i
31	2132	12.9	+32 6	4.41	4.97	Go	..	R	1679c	81	3049	13.2	-4 31	7.34	8.34	Ko	9	..	19138b
32	2428	12.9	+6 37	9.5	10.6	K2	1	..	21675b	82	3226	13.2	-20 9	9.13	10.0	A3	2	..	41220b
33	7111	12.9	-35 59	6.60	7.4	Ko	6	0.7	41232b	83	8477	13.2	-26 10	10.1	10.1	G5	3	..	40450b
34	6946	12.9	-43 54	7.8	9.2	Ko	2	..	9376b	84	7113	13.2	-36 3	8.2	8.2	Go	4	5,3	41410b
35	5538	12.9	-51 31	9.8	9.4	Fo	3	..	37600b	85	7025	13.2	-40 1	8.68	8.9	Ko	2	..	41415b
36	5540	12.9	-51 53	10.2	10.2	G5	2	..	37600b	86	7196	13.2	-44 57	7.18	8.0	G5	6	..	9376b
37	4414	12.9	-52 39	9.6	9.6	Ao	2	..	38406b	87	7197	13.2	-45 1	8.74	9.2	K5	3	3,2	38416b
38	4448	12.9	-53 42	10.2	10.2	B9	5	..	37600b	88	5544	13.2	-51 23	9.1	9.6	Ko	3	..	37600b
39	4449	12.9	-53 58	9.6	9.7	A2	4	..	37662b	89	4274	13.2	-55 19	9.8	10.6	G5	1	..	37600b
40	3301	12.9	-59 13	7.5	7.6	A3	2	..	43030b	90	4532	13.2	-58 3	9.7	9.7	B9	3	..	21695b
41	2174	12.9	-61 26	9.5	9.6	A5	2	..	38798b	91	3307	13.2	-59 53	8.5	8.9	Ao	5	..	21695b
42	1953	12.9	-62 19	8.3	8.3	B9	6	..	38798b	92	1703	13.2	-67 16	6.09	8.5	Ma	7	..	40075b
43	1568	12.9	-66 19	9.3	9.3	Ao	2	..	38798b	93	1702	13.2	-67 29	8.9	9.0	A3	3	..	40075b
44	1463	12.9	-68 57	7.6	7.6	B8	6	..	40075b	94	789	13.2	-74 40	8.3	8.3	B9	6	..	40298b
45	1229	12.9	-71 37	8.5	9.5	Ko	2	..	40298b	95	1554	13.3	+51 51	8.7	9.7	Ko	2	..	38648i
46	1908	13.0	+45 5	9.5	10.1	Go	2	..	37726i	96	2339	13.3	+24 37	9.56	10.34	G5	1	..	37505i
47	2102	13.0	+42 51	7.04	7.82	G5	7	..	37726i	97	3210	13.3	-7 34	9.3	10.3	Ko	1	..	19138b
48	2242	13.0	+16 31	8.5	9.1	Go	3	..	37504i	98	3393	13.3	-12 51	9.3	9.7	F5	4	..	19140b
49	3236	13.0	-15 17	8.96	9.30	F2	4	..	41220b	99	3238	13.3	-16 0	8.8	8.9	A2	4	..	41220b
50	3222	13.0	-16 46	9.3	10.3	Ko	1	..	41220b	100	7990	13.3	-27 54	8.3	8.9	K2	6	..	11310b

THE HENRY DRAPER CATALOGUE.

98300

11^h 13^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	9091	13.3	-30 46	8.3	8.8	Go	4	..	11310b	51	1230	13.6	-71 46	9.1	9.4	Fo	2	..	40298b
2	8908	13.3	-31 12	7.41	8.5	Ko	4	..	11310b	52	1436	13.7	+54 13	9.1	9.6	F8	2	..	37717i
3	6855	13.3	-45 33	8.4	8.9	A3	5	..	9376b	53	2225	13.7	+38 44	4.78	4.84	A2	..	..	56,88
4	6349	13.3	-49 1	8.8	9.0	F2	4	..	38416b	54	2321	13.7	+14 49	6.65	7.21	Go	7	..	38319i
5	4451	13.3	-53 16	9.5	9.5	B9	3	..	38406b	55	3352	13.7	-6 22	8.6	9.7	K2	5	..	19138b
6	4446	13.3	-54 34	10.0	10.0	Ao	4	..	37600b	56	3258	13.7	-9 35	8.9	9.9	Ko	4	..	19140b
7	4276	13.3	-55 9	9.60	10.2	Ko	3	..	37600b	57	3072	13.7	-11 55	9.1	10.1	Ko	3	..	19140b
8	4275	13.3	-55 13	9.5	10.6	K2	1	..	37600b	58	3342	13.7	-13 26	9.1	9.5	F5	3	..	19140b
9	4277	13.3	-55 41	9.4	10.0	Go	2	..	21695b	59	6354	13.7	-48 14	7.3	7.4	B9	9	..	38416b
10	4536	13.3	-57 26	9.5	9.4	B5	3	..	21695b	60	3436	13.7	-58 20	8.6	8.9	Fo	4	..	21695b
11	4537	13.3	-57 37	9.7	9.7	Ao	3	..	21695b	61	3321	13.7	-59 27	9.6	9.6	B9	2	..	21695b
12	2786	13.3	-61 5	8.1	9.2	Ko	6	..	38798b	62	3318	13.7	-59 39	9.8	9.8	B9	2	..	21695b
13	2182	13.3	-61 23	8.8	9.2	Ao	4	..	38798b	63	1876	13.7	-63 30	7.5	7.6	A2	5	..	38834b
14	1959	13.3	-62 56	7.1	7.1	Ao	8	..	38798b	64	538	13.7	-81 1	8.7	9.7	Ko	2	..	13466b
15	1367	13.4	+59 25	7.66	8.66	Ko	3	..	37716i	65	440	13.8	+74 58	8.47	9.03	Go	4	..	37742i
16	1512	13.4	+56 27	8.4	9.2	G5	2	..	37717i	66	2411	13.8	+2 12	6.02	7.02	Ko	8	..	13370b
17	2175	13.4	+36 2	6.94	7.94	Ko	8	..	37572i	67	7636	13.8	-33 13	8.0	8.0	Ao	4	..	41232b
18	2211	13.4	+34 13	9.7	10.7	Ko	3	..	37572i	68	4434	13.8	-52 30	9.9	9.9	Ao	3	..	37600b
19	2194	13.4	+25 51	9.6	10.4	G5	1	..	37505i	69	4459	13.8	-53 19	9.4	10.0	Go	1	..	38406b
20	2342	13.4	+11 8	8.7	9.7	Ko	3	..	38319i	70	4390	13.8	-56 10	10.0	10.0	Ao	3	1,1	37600b
21	3250	13.4	-5 21	8.35	9.35	Ko	6	..	19138b	71	4548	13.8	-57 38	9.3	9.7	F5	3	..	21695b
22	3350	13.4	-7 11	8.9	9.2	Fo	6	..	19138b	72	2185	13.8	-61 22	9.1	10.1	Ko	2	..	38798b
23	7114	13.4	-35 53	9.2	8.9	A5	3	3,3	41410b	73	1231	13.8	-71 57	8.7	9.7	Ko	3	..	40298b
24	7105	13.4	-37 6	8.2	8.9	K2	3	3,1	41415b	74	658	13.8	-76 20	8.8	9.9	K2	1	..	21530b
25	7159	13.4	-37 40	9.0	9.5	K5	1	..	41415b	75	1932	13.9	+48 0	8.9	9.3	F5	1	..	37726i
26	6030	13.4	-50 5	9.47	9.0	Ao	4	..	38416b	76	2253	13.9	+31 3	10.2	10.8	G	1	..	37572i
27	5873	13.4	-50 21	9.6	10.2	Ko	1	..	38416b	77	2274	13.9	+10 17	8.5	8.6	A2	5	..	38319i
28	3429	13.4	-58 34	8.6	9.0	A2	5	..	21695b	78	3239	13.9	-11 13	8.0	8.4	F5	7	..	19140b
29	3431	13.4	-58 39	7.0	7.0	B9	4	..	43030b	79	3351	13.9	-17 49	8.7	9.2	F8	3	..	41220b
30	1467	13.4	-68 57	7.9	7.9	B9	6	..	40075b	80	9101	13.9	-30 49	8.2	8.6	A2	5	..	11310b
31	1811	13.5	+50 30	8.3	8.7	F5	4	..	38648i	81	6359	13.9	-48 10	9.1	9.9	G5	1	..	38416b
32	2340	13.5	+16 59	8.04	8.38	F2	4	0,5	38319i	82	6042	13.9	-49 21	9.6	10.2	K2	1	..	38416b
33	2476	13.5	+5 39	8.5	9.7	K5	2	..	21675b	83	4460	13.9	-53 10	8.2	8.8	A2	7	..	38406b
34	2481	13.5	+3 41	9.0	9.4	F5	2	..	13370b	84	4283	13.9	-56 5	9.9	9.9	B9	4	1,2	37600b
35	3151	13.5	-18 42	9.6	10.4	G5	2	..	41220b	85	3441	13.9	-58 41	9.0	8.9	Ao	6	..	21695b
36	7634	13.5	-33 37	9.6	9.7	F5	1	..	41232b	86	1963	13.9	-62 26	8.0	9.0	Ko	5	..	38798b
37	5876	13.5	-50 10	9.97	9.6	A3	2	..	38416b	87	1356	13.9	-70 26	8.0	9.2	K5	2	..	38923b
38	4448	13.5	-54 39	10.0	10.0	B8	4	..	37600b	88	2374	14.0	+13 56	7.08	7.58	F8	6	..	38319i
39	4384	13.5	-56 8	10.2	10.3	A2	2	..	37600b	89	3240	14.0	-10 53	9.3	10.4	K2	2	..	19140b
40	3433	13.5	-58 41	7.2	7.3	Ao	3	..	43030b	90	3111	14.0	-22 35	9.2	9.7	Go	4	..	40450b
41	1704	13.5	-67 34	7.6	8.4	G5	7	..	40075b	91	6887	14.0	-42 14	9.8	10.0	K2	1	..	41420b
42	1468	13.5	-68 23	9.0	9.1	A2	2	..	40075b	92	6946	14.0	-46 53	9.2	8.6	Ao	6	..	38416b
43	568	13.6	+71 29	8.17	8.95	G5	3	..	37554i	93	3330	14.0	-60 3	9.48	9.5	B5	3	..	38798b
44	1909	13.6	+45 7	8.2	8.5	Fo	6	..	37726i	94	1706	14.0	-67 53	8.5	8.5	Ao	4	..	40075b
45	2343	13.6	+11 8	8.5	8.8	Fo	6	..	38319i	95	1814	14.1	+50 1	8.9	9.9	Ko	2	..	38648i
46	9863	13.6	-23 48	6.73	7.3	Ko	9	..	40450b	96	2212	14.1	+34 36	10.2	11.3	K2	3	..	37572i
47	8581	13.6	-26 2	8.4	9.3	F8	5	..	11310b	97	2099	14.1	+33 21	8.0	9.0	Ko	7	..	37572i
48	8006	13.6	-32 36	8.6	9.5	F5	3	..	41232b	98	2431	14.1	+6 13	9.5	10.5	Ko	1	..	21675b
49	4429	13.6	-52 35	9.3	10.4	K2	2	..	37600b	99	2549	14.1	+1 16	7.7	8.7	Ko	6	..	13370b
50	4449	13.6	-54 33	9.7	10.3	Go	2	..	37600b	100	3352	14.1	-17 58	9.1	9.4	Fo	2	..	41220b

98400

11^h 14^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	° ' "									m.	° ' "						
1	3229	14.1	-20 10	8.88	9.7	Fo	3	..	40450b	51	2433	14.5	+ 6 44	9.0	10.0	Ko	3	..	21675b
2	9866	14.1	-23 21	9.1	10.3	K5	2	..	40450b	52	2480	14.5	+ 5 39	8.5	8.6	A2	2	..	13370b
3	9664	14.1	-24 41	7.9	9.2	Fo	7	..	40450b	53	3211	14.5	- 8 3	9.3	10.3	Ko	1	..	19138b
4	8014	14.1	-33 7	9.3	10.2	Ko	1	..	41232b	54	3229	14.5	-16 57	9.6	10.1	F8	1	..	41220b
5	7364	14.1	-34 39	8.9	9.1	Fo	4	..	41232b	55	3398	14.5	-20 53	8.1	9.5	K5	3	..	40450b
6	6045	14.1	-49 42	10.5	10.1	A5	2	..	38416b	56	8004	14.5	-27 56	7.9	8.6	Ko	6	..	40312b
7	4440	14.1	-52 9	9.9	9.9	B9	3	..	37600b	57	9003	14.5	-29 47	7.9	7.6	Ao	7	..	11310b
8	4461	14.1	-53 30	9.4	9.4	Ao	3	..	38406b	58	7169	14.5	-37 10	8.2	8.5	Ko	5	..	41415b
9	3334	14.1	-59 42	8.4	8.1	B9	2	..	43030b	59	7035	14.5	-39 44	8.2	8.3	G5	4	..	41415b
10	1964	14.1	-62 25	9.1	9.2	B5	3	..	38798b	60	5566	14.5	-51 20	9.8	9.7	A3	3	..	38416b
11	3241	14.2	-15 43	8.3	9.7	Ma	3	..	41220b	61	4467	14.5	-53 18	10.0	10.0	Ao	2	..	38406b
12	3231	14.2	-19 17	9.3	10.3	F8	2	..	41220b	62	4469	14.5	-53 55	10.2	10.2	Ao	1	..	38406b
13	3230	14.2	-19 41	8.1	7.9	F2	6	..	41225b	63	4461	14.5	-55 6	7.66	9.4	K2	4	..	21695b
14	8483	14.2	-26 21	8.9	10.1	Ko	3	..	40450b	64	3452	14.5	-58 28	8.5	8.3	Ao	6	..	21695b
15	9107	14.2	-30 28	7.8	8.2	Go	6	..	11310b	65	1966	14.5	-62 47	9.8	9.6	B	1	..	38798b
16	6049	14.2	-49 13	10.5	10.2	F8	2	..	38416b	66	1322	14.6	+60 22	10.0	10.6	G	1	R	37716i
17	5889	14.2	-50 9	10.5	10.1	Ao	1	..	38416b	67	2255	14.6	+31 28	9.6	10.4	G5	2	..	37572i
18	5887	14.2	-50 31	9.1	9.3	A2	3	..	38416b	68	2144	14.6	+29 21	8.9	9.9	Ko	2	0,1	37572i
19	4554	14.2	-58 1	9.0	9.1	A2	4	..	21695b	69	2438	14.6	+19 38	8.03	9.03	Ko	3	0,3	37770i
20	3445	14.2	-58 57	9.3	10.3	Ko	1	..	21695b	70	2481	14.6	+ 4 58	8.5	8.9	F5	2	..	13370b
21	2799	14.2	-60 16	9.58	10.0	Ao	2	R	38798b	71	2449	14.6	+ 4 11	7.9	8.4	F8	3	..	13370b
22	1648	14.2	-65 0	9.48	9.3	B9	3	..	38798b	72	3242	14.6	-10 41	9.6	10.6	Ko	1	..	19140b
23	2228	14.3	+38 38	7.16	7.50	F2	6	..	38658i	73	9674	14.6	-24 13	10.6	11.5	K5	1	..	40450b
24	2254	14.3	+31 4	8.9	9.7	G5	3	..	37572i	74	8922	14.6	-31 58	8.3	8.6	F2	6	..	41232b
25	2304	14.3	+21 16	7.56	8.63	K2	3	0,3	37770i	75	7171	14.6	-37 19	8.6	8.5	F2	3	..	41415b
26	2432	14.3	+ 6 14	9.0	10.1	K2	3	..	21675b	76	6480	14.6	-41 26	8.9	8.9	Fo	5	..	41420b
27	2428	14.3	- 1 6	6.59	7.09	F8	8	..	19228b	77	6957	14.6	-46 57	9.1	8.6	Ao	7	..	38416b
28	3254	14.3	- 5 24	9.15	9.93	G5	3	..	19138b	78	6726	14.6	-47 38	8.4	8.6	Go	7	..	38416b
29	3355	14.3	- 7 2	8.5	8.6	A3	7	..	19138b	79	6367	14.6	-48 20	9.1	9.6	Ko	2	..	38416b
30	3345	14.3	-14 14	3.82	4.82	Ko	..	R	1759c	80	4285	14.6	-56 2	8.3	8.5	B5	5	..	21695b
31	4444	14.3	-52 43	9.9	10.5	Go	2	..	37600b	81	4563	14.6	-57 40	9.5	9.4	B5	4	..	21695b
32	4463	14.3	-53 32	9.5	10.3	G5	1	..	38406b	82	4561	14.6	-58 3	9.7	9.7	Ao	3	..	21695b
33	4458	14.3	-54 52	10.0	10.0	Ao	2	..	21695b	83	3457	14.6	-58 50	9.9	10.0	A2	2	..	21695b
34	4555	14.3	-57 38	7.2	8.5	Mb	2	..	43030b	84	2808	14.6	-61 6	7.6	8.4	Ao	7	..	38798b
35	3447	14.3	-58 40	9.1	8.9	A2	5	..	21695b	85	1880	14.6	-63 43	8.7	8.7	B8	3	..	38834b
36	2801	14.3	-60 36	7.7	8.6	B5	5	..	38798b	86	828	14.6	-73 37	7.9	7.9	B9	6	..	40298b
37	2276	14.4	+10 28	8.7	8.8	A3	2	..	38319i	87	952	14.7	+62 54	8.2	8.5	F2	6	..	37716i
38	2436	14.4	+ 7 25	9.3	10.1	G5	2	..	21675b	88	1368	14.7	+59 19	8.06	8.12	A2	6	..	37716i
39	2769	14.4	+ 0 22	8.5	9.0	F8	7	..	13370b	89	3356	14.7	- 6 21	8.5	8.8	F2	8	..	19138b
40	7034	14.4	-39 57	7.20	8.0	A5	6	..	41415b	90	3243	14.7	-11 13	8.6	8.9	F2	6	..	19140b
41	7215	14.4	-44 22	10.2	9.8	Fo	2	..	41420b	91	3401	14.7	-12 55	9.6	10.7	K2	1	..	19140b
42	6721	14.4	-47 46	9.8	10.4	K2	1	..	38416b	92	3242	14.7	-15 41	8.6	9.6	Ko	3	..	41220b
43	6363	14.4	-48 10	8.8	9.9	Ma	2	..	38416b	93	3285	14.7	-21 41	8.5	9.4	Ko	5	..	40450b
44	6364	14.4	-48 48	9.2	9.7	Go	2	..	38416b	94	6642	14.7	-40 58	8.7	8.9	Fo	2	..	9377b
45	5892	14.4	-50 11	9.6	9.9	G5	1	..	38416b	95	7220	14.7	-44 33	7.8	9.2	Mb	4	..	41420b
46	4465	14.4	-53 49	10.2	10.2	Ao	1	..	38406b	96	1712	14.7	-68 6	9.1	9.2	A3	1	..	40075b
47	4558	14.4	-58 8	9.1	10.0	Ko	1	..	21695b	97	1357	14.7	-70 33	8.9	10.3	Ma	..	..	M
48	3449	14.4	-59 1	10.0	10.0	Ao	1	..	21695b	98	634	14.7	-78 49	8.9	9.7	G5	2	..	21530b
49	1315	14.5	+57 9	8.6	9.4	G5	2	..	37717i	99	692	14.8	+67 38	6.31	7.31	Ko	7	..	37554i
50	1715	14.5	+46 7	9.1	10.1	K	1	..	37726i	100	2137	14.8	+30 40	7.42	8.60	K5	4	..	37572i

THE HENRY DRAPER CATALOGUE.

98500

11^h 14^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2147	14.8	+28 52	7.94	9.01	K2	3	0,2	37572i	51	3350	15.2	-13 21	7.9	8.9	Ko	7	..	1914ob
2	2347	14.8	+22 27	7.9	8.9	Ko	4	0,4	37505i	52	3347	15.2	-14 13	8.9	10.0	K2	4	..	4122ob
3	2770	14.8	+ 0 14	9.0	9.8	G5	2	..	1337ob	53	3154	15.2	-19 2	7.50	8.06	Go	6	..	4122ob
4	3305	14.8	-14 46	9.1	9.9	G5	4	..	4122ob	54	7118	15.2	-36 52	8.9	8.9	Go	3	..	41415b
5	3353	14.8	-17 22	8.7	10.1	Ma	1	..	4122ob	55	6741	15.2	-47 49	8.4	8.3	B9	6	..	38416b
6	3399	14.8	-20 26	8.5	8.8	F5	6	..	4045ob	56	6740	15.2	-47 51	8.2	9.0	Ko	3	..	38416b
7	3287	14.8	-21 21	9.1	9.7	Ko	4	..	4045ob	57	5903	15.2	-50 19	9.1	9.6	Ko	2	..	38416b
8	8008	14.8	-27 13	9.4	9.6	A5	4	..	40312b	58	4466	15.2	-52 56	7.6	7.8	A2	8	..	38406b
9	6730	14.8	-47 39	8.9	10.0	Mb	2	..	38416b	59	4409	15.2	-56 36	9.9	10.0	A3	2	..	21695b
10	6369	14.8	-48 57	10.2	10.2	Ao	1	..	38416b	60	1881	15.2	-64 2	6.06	6.2	F5	..	0,8	56,129
11	6059	14.8	-49 57	10.5	10.1	Ao	1	..	38416b	61	798	15.2	-74 52	8.5	8.6	A2	6	..	40298b
12	4464	14.8	-54 48	8.4	9.7	K2	3	0,3	21695b	62	2344	15.3	+24 9	8.8	9.6	G5	2	..	37505i
13	1713	14.8	-67 40	8.6	9.6	Ko	1	..	40075b	63	2510	15.3	- 1 16	8.6	9.0	F5	5	..	19228b
14	2325	14.9	+12 35	8.9	9.9	Ko	2	..	38319i	64	3236	15.3	-20 14	9.28	9.7	F8	1	..	4122ob
15	2434	14.9	+ 6 12	9.3	10.7	Mb	1	..	21675b	65	3115	15.3	-23 11	8.5	9.1	K2	5	..	3995ob
16	8009	14.9	-27 39	7.8	8.6	Ko	7	..	40312b	66	6488	15.3	-41 40	9.2	8.9	Fo	4	..	4142ob
17	6962	14.9	-46 51	7.4	8.3	Ko	8	..	38416b	67	6742	15.3	-47 13	10.9	10.0	G5	1	..	38416b
18	6960	14.9	-46 56	10.2	9.6	G	1	R	38416b	68	5904	15.3	-50 16	9.17	8.7	F5	3	..	38416b
19	4457	14.9	-52 12	9.0	9.6	Ko	4	..	3760ob	69	4469	15.3	-55 7	9.5	10.3	G5	3	..	3760ob
20	4466	14.9	-54 43	9.0	10.0	Ko	3	..	38406b	70	3467	15.3	-58 14	8.9	8.9	B8	4	..	21695b
21	4406	14.9	-56 25	8.5	9.1	F5	5	..	21695b	71	1968	15.3	-63 4	9.4	9.4	B8	2	..	38798b
22	4407	14.9	-56 40	9.1	9.5	F5	3	..	21695b	72	1558	15.4	+52 18	7.18	7.46	Fo	6	..	37717i
23	2815	14.9	-60 21	9.0	9.8	Ko	2	..	38798b	73	2137	15.4	+32 17	8.4	9.4	Ko	4	..	37572i
24	2816	14.9	-60 47	10.0	10.0	Ao	2	..	38798b	74	2336	15.4	+23 26	8.8	9.6	G5	2	..	37505i
25	1649	14.9	-64 30	9.0	9.0	B8	4	..	38798b	75	3325	15.4	- 2 21	8.7	8.8	A2	3	..	19228b
26	1912	15.0	+45 32	6.66	6.94	Fo	9	..	37726i	76	3232	15.4	-16 56	9.6	10.7	K2	1	..	4122ob
27	2081	15.0	+43 56	8.4	9.4	Ko	2	..	37726i	77	3156	15.4	-18 22	8.7	9.0	Fo	3	..	4122ob
28	2343	15.0	+17 40	7.7	8.8	K2	3	2,3	3777oi	78	3237	15.4	-20 8	8.58	9.1	G5	3	..	4122ob
29	3136	15.0	- 8 21	10.2	10.7	F8	1	..	19138b	79	8013	15.4	-27 47	6.73	8.4	Ko	8	..	40312b
30	3246	15.0	-10 33	8.9	9.9	Ko	3	..	1914ob	80	7178	15.4	-37 42	9.2	9.7	Ko	1	..	41415b
31	9009	15.0	-29 54	8.10	8.5	K2	3	..	1131ob	81	5907	15.4	-50 57	9.6	9.3	A2	3	..	38416b
32	6899	15.0	-42 36	8.5	8.7	Go	4	..	4142ob	82	5583	15.4	-51 34	10.0	9.6	Ao	2	..	38416b
33	6734	15.0	-47 12	10.2	9.8	A3	3	..	38416b	83	4289	15.4	-55 24	10.0	10.0	B9	5	1,2	3760ob
34	6735	15.0	-47 19	9.4	9.8	Ko	3	..	38416b	84	4583	15.4	-57 36	8.1	7.9	B8	3	..	4303ob
35	4476	15.0	-53 37	9.5	10.0	F8	2	..	38406b	85	3471	15.4	-58 12	8.8	8.9	A3	4	..	21695b
36	2819	15.0	-60 23	9.1	8.9	Ao	5	..	38798b	86	1650	15.4	-64 8	8.5	9.3	G5	3	..	38798b
37	829	15.0	-73 38	7.1	7.6	F8	7	..	40298b	87	1714	15.4	-67 44	8.2	9.2	Ko	2	..	40075b
38	533	15.1	+72 17	8.2	9.2	Ko	3	..	37554i	88	448	15.4	-82 51	8.8	8.8	Ao	4	0,4	13466b
39	2552	15.1	+ 0 49	7.79	8.57	G5	6	..	1337ob	89	1238	15.5	+61 7	8.8	9.2	F5	5	..	37716i
40	3244	15.1	-15 39	10.9	10.9	A	1	..	4122ob	90	2450	15.5	+ 4 10	8.9	9.0	A2	3	..	1337ob
41	3289	15.1	-21 35	9.3	10.1	Ko	2	..	4045ob	91	3265	15.5	- 9 45	6.70	7.70	Ko	9	..	1914ob
42	5577	15.1	-51 56	7.0	7.9	Ko	7	..	38416b	92	9685	15.5	-25 5	11.3	11.0	Go	2	..	4045ob
43	4467	15.1	-54 12	8.6	9.4	K2	4	..	21695b	93	8604	15.5	-25 36	8.3	8.9	Go	6	..	1131ob
44	4287	15.1	-55 26	9.6	9.7	A5	7	2,2	3760ob	94	6066	15.5	-49 29	10.0	9.9	F5	2	..	38416b
45	3464	15.1	-58 17	8.4	8.3	B8	6	..	21695b	95	6067	15.5	-49 56	9.8	10.1	A2	2	..	38416b
46	3346	15.1	-60 2	9.33	9.0	Ao	3	2,3	38798b	96	3475	15.5	-58 38	7.3	7.7	Ao	3	..	4303ob
47	2475	15.2	+17 52	6.87	6.87	Ao	7	0,7	3777oi	97	3357	15.5	-59 47	9.5	9.5	B9	2	..	21695b
48	2483	15.2	+ 5 10	9.3	10.3	Ko	2	..	21675b	98	2827	15.5	-60 11	9.4	9.5	A2	1	..	38798b
49	3138	15.2	- 8 19	8.7	9.8	K2	5	..	19138b	99	1655	15.5	-65 29	8.6	9.8	K5	2	..	38798b
50	3139	15.2	- 8 42	9.2	9.8	Go	3	..	19138b	100	1120	15.5	-72 36	8.5	9.7	K5	2	..	40298b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

98600

11^h 15^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	432	15.6	+77 37	8.6	9.2	Go	2	..	37465i	51	7145	15.9	-35 10	7.54	8.1	F2	6	..	41232b
2	2237	15.6	+35 28	9.3	10.1	G5	3	..	37572i	52	7070	15.9	-38 8	9.8	9.3	Ao	1	..	41415b
3	2488	15.6	+ 3 25	8.3	9.3	Ko	3	..	1337ob	53	6384	15.9	-48 31	9.8	8.8	B9	4	..	38416b
4	3213	15.6	- 8 2	9.3	10.4	K2	2	..	19138b	54	4480	15.9	-54 9	9.7	9.7	Ao	2	..	21695b
5	3141	15.6	- 9 9	8.5	8.5	Ao	7	..	19140b	55	4415	15.9	-56 16	9.2	10.0	G5	1	..	21695b
6	3078	15.6	-12 8	8.7	9.8	K2	2	..	19140b	56	4416	15.9	-56 24	8.1	9.4	K2	5	..	21695b
7	3118	15.6	-22 49	9.8	9.8	F8	3	..	3995ob	57	2833	15.9	-60 51	8.9	10.1	B	1	..	38798b
8	9687	15.6	-24 37	10.8	11.5	Go	1	..	4045ob	58	1652	15.9	-64 42	8.8	10.2	Ma	1	..	38798b
9	8932	15.6	-31 33	8.1	7.5	A2	8	..	41232b	59	1572	15.9	-66 30	7.9	7.9	B9	7	..	40075b
10	7124	15.6	-36 59	8.2	7.7	Ao	7	..	41415b	60	1531	15.9	-70 4	8.11	8.0	F2	5	..	38923b
11	6380	15.6	-48 59	9.1	9.6	G5	2	..	38416b	61	385	16.0	+77 56	7.54	7.96	F5	7	..	37465i
12	4473	15.6	-54 18	9.7	9.7	B9	3	..	38406b	62	1370	16.0	+58 57	9.5	9.6	A5	1	..	37716i
13	4292	15.6	-55 10	9.4	10.2	G5	3	..	37600b	63	1485	16.0	+53 22	9.5	10.0	F8	2	..	37717i
14	3477	15.6	-59 1	8.8	8.3	Bo	7	..	21695b	64	2437	16.0	+ 6 35	4.13	4.13	Ao	..	R	6531c
15	3359	15.6	-59 43	8.6	9.2	Ao	5	..	21695b	65	3328	16.0	- 3 13	8.9	10.0	K2	1	..	19228b
16	1883	15.6	-63 12	8.9	9.0	A2	6	..	38798b	66	3359	16.0	- 6 21	8.9	9.2	F2	4	..	19138b
17	638	15.6	-79 7	6.29	6.6	A3	9	..	13466b	67	4297	16.0	-55 15	10.0	10.0	Ao	5	2,2	37600b
18	1369	15.7	+59 1	8.0	8.8	G5	3	E	37717i	68	4594	16.0	-57 55	9.1	9.1	B9	4	..	21695b
19	8496	15.7	-26 54	10.6	9.8	A5	3	..	40312b	69	2835	16.0	-60 33	8.1	8.1	Fo	2	0,8	4303ob
20	8497	15.7	-27 3	9.9	8.9	A2	7	..	40312b	70	2213	16.0	-61 24	9.3	10.3	Ko	1	..	38798b
21	7143	15.7	-35 26	8.2	10.0	K5	1	..	41232b	71	1124	16.0	-72 24	6.57	6.9	Ao	10	..	40298b
22	4473	15.7	-53 6	7.9	7.7	Ko	6	..	38406b	72	801	16.0	-74 36	6.34	6.1	Ao	9	..	45481b
23	4293	15.7	-55 52	8.9	9.2	Ao	7	0,3	37600b	73	1316	16.1	+57 37	6.32	6.38	A2	8	..	37717i
24	2829	15.7	-60 41	9.1	9.8	B	1	..	38798b	74	2438	16.1	+ 6 17	9.3	10.3	Ko	2	..	21675b
25	1884	15.7	-63 22	8.8	9.6	G5	1	..	38798b	75	3097	16.1	- 3 51	9.6	10.1	F8	2	..	19228b
26	1237	15.7	-71 21	9.4	9.5	A2	2	..	40298b	76	7243	16.1	-44 51	9.6	9.3	Ao	3	..	41420b
27	722	15.7	-75 16	7.08	9.3	K5	4	..	40298b	77	4595	16.1	-58 2	8.5	9.5	Ko	2	..	21695b
28	1862	15.8	+47 0	8.8	9.6	G5	2	..	37726i	78	..	16.1	-61 20	var.	var.	Md	..	R	M
29	2308	15.8	+21 24	7.8	8.1	F2	4	3,4	37505i	79	1573	16.1	-66 42	9.1	9.1	Ao	1	..	40075b
30	2439	15.8	+ 7 37	8.0	8.6	Go	2	..	38319i	80	1717	16.1	-67 14	8.4	9.6	K5	2	0,2	38923b
31	2484	15.8	+ 5 25	8.1	8.4	F2	7	..	1337ob	81	2181	16.2	+41 0	7.10	7.60	F8	6	..	37726i
32	2490	15.8	+ 2 57	7.9	8.2	F2	6	..	1337ob	82	2182	16.2	+40 50	8.4	8.8	F5	4	..	38658i
33	9688	15.8	-24 43	9.4	9.8	Go	5	..	3995ob	83	2180	16.2	+36 11	8.3	9.3	Ko	5	..	37572i
34	6653	15.8	-40 24	9.2	8.9	Ao	2	..	41415b	84	2106	16.2	+33 19	9.0	10.0	Ko	3	..	37572i
35	6891	15.8	-45 11	6.94	7.8	Fo	8	..	41420b	85	2139	16.2	+32 36	9.0	10.4	Ma	2	..	37572i
36	6976	15.8	-46 36	9.2	8.9	Fo	4	0,3-	13033b	86	3098	16.2	- 3 50	8.1	8.2	A2	7	..	19228b
37	6977	15.8	-46 49	8.8	8.9	Ko	5	..	38416b	87	3353	16.2	-13 32	8.1	8.2	A5	8	2,8	19140b
38	4478	15.8	-54 22	9.7	9.7	Ao	3	..	38406b	88	8800	16.2	-28 11	8.4	10.1	Fo	4	..	40312b
39	2832	15.8	-60 28	9.3	9.6	Fo	2	..	38798b	89	6752	16.2	-47 34	9.1	10.0	G5	2	..	38416b
40	832	15.8	-73 27	8.5	9.3	G5	4	..	40298b	90	5603	16.2	-51 40	9.1	9.3	K2	2	..	38416b
41	2436	15.9	+39 3	8.9	9.7	G5	2	..	38656i	91	4495	16.2	-53 33	10.0	10.0	B9	1	..	38406b
42	2238	15.9	+34 57	9.6	10.4	G5	3	..	37572i	92	4601	16.2	-57 46	8.2	8.8	Ko	5	..	21695b
43	2477	15.9	+18 26	8.3	8.7	F5	2	..	37770i	93	3368	16.2	-60 2	8.83	8.7	Ao	5	0,5	21695b
44	2391	15.9	+13 6	8.5	9.5	Ko	3	..	38319i	94	1653	16.2	-64 37	9.9	9.9	Ao	1	..	38798b
45	3096	15.9	- 3 27	8.7	8.8	A3	4	..	19228b	95	1238	16.2	-71 27	6.45	6.9	B3	..	5,10	56,129
46	3079	15.9	-11 38	8.9	9.7	G5	2	..	19140b	96	1717	16.3	+45 52	7.9	8.0	A2	5	..	37726i
47	3307	15.9	-14 17	9.3	10.4	K2	1	..	19140b	97	2440	16.3	+ 7 11	6.57	7.07	F8	9	..	21675b
48	3157	15.9	-18 45	9.2	9.6	F5	2	..	41220b	98	2452	16.3	+ 4 29	8.5	9.7	K5	1	..	1337ob
49	3121	15.9	-22 40	8.1	8.1	Go	8	..	3995ob	99	2512	16.3	- 1 24	9.5	10.7	K5	1	..	19228b
50	9125	15.9	-30 46	9.7	10.6	K5	1	..	40312b	100	8027	16.3	-27 14	9.1	8.9	A2	6	..	40312b

THE HENRY DRAPER CATALOGUE.

98700

11^h 16^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8026	m. 16.3	° 27 23	9.4	9.8	G5	3	..	40312b	51	9701	m. 16.7	° 24 52	10.4	11.5	Ko	1	..	4045ob
2	9028	16.3	-29 24	9.6	10.0	G5	1	..	11310b	52	9699	16.7	-25 2	11.3	11.0	F8	2	..	4045ob
3	7389	16.3	-34 58	7.42	7.0	A3	7	..	41232b	53	9137	16.7	-30 59	7.9	8.3	F5	7	..	40312b
4	6754	16.3	-47 26	9.4	9.5	F8	3	..	38416b	54	6764	16.7	-48 0	10.9	10.5	A3	1	..	38416b
5	4496	16.3	-53 27	10.0	10.0	Ao	2	..	38406b	55	5924	16.7	-50 38	9.4	9.0	A2	3	..	38416b
6	4482	16.3	-54 23	9.0	9.1	B8	5	..	21695b	56	4487	16.7	-54 48	9.0	9.9	Ko	2	0,2	21695b
7	3371	16.3	-59 58	9.58	9.0	Ao	3	..	38798b	57	1972	16.7	-62 12	10.1	10.1	Ao	1	..	38798b
8	2214	16.3	-61 26	9.8	9.8	B8	3	..	38798b	58	2107	16.8	+33 7	9.6	10.2	Go	3	..	37572i
9	606	16.4	+69 19	10.2	11.0	G5	2	..	37554i	59	2778	16.8	+ 0 35	8.74	9.24	F8	3	..	1337ob
10	2241	16.4	+35 25	8.4	8.5	A3	5	..	37572i	60	2777	16.8	+ 0 7	8.1	9.3	K5	2	..	1337ob
11	2487	16.4	+ 4 45	7.81	8.23	F5	5	..	1337ob	61	3308	16.8	-14 31	9.3	10.5	K5	1	..	1914ob
12	3242	16.4	-19 54	8.9	10.0	K5	2	..	41225b	62	3245	16.8	-19 58	8.9	9.1	A5	3	..	41225b
13	3291	16.4	-21 58	10.0	10.8	K2	1	..	4045ob	63	3292	16.8	-21 33	7.30	7.7	B9	8	..	41225b
14	9694	16.4	-24 31	9.6	10.6	Ko	3	..	3995ob	64	9898	16.8	-23 38	8.3	8.5	G5	6	..	3995ob
15	9030	16.4	-29 26	9.4	10.0	Ko	1	..	11310b	65	6399	16.8	-48 45	8.4	8.6	Ko	4	..	38416b
16	6916	16.4	-42 21	8.5	8.9	Ao	4	..	41420b	66	4500	16.8	-53 35	8.6	10.3	Ma	1	..	38406b
17	6902	16.4	-45 20	7.44	8.6	Ko	3	..	41420b	67	..	16.8	-55 13	var.	var.	Nb	..	R	M
18	4498	16.4	-53 56	4.26	4.14	B5	..	R	28,206	68	4305	16.8	-55 51	10.2	10.2	Ao	3	..	3760ob
19	4484	16.4	-54 47	9.4	10.0	Go	2	0,2-	38406b	69	4612	16.8	-57 37	9.1	9.1	B9	4	..	21695b
20	4424	16.4	-56 26	9.1	9.4	F2	4	..	21695b	70	1656	16.8	-65 25	8.8	9.1	Go	3	..	38798b
21	4605	16.4	-57 32	9.6	9.7	A2	2	..	21695b	71	459	16.9	+74 18	8.9	9.5	Go	5	..	37742i
22	4608	16.4	-57 56	8.4	8.5	F2	7	..	21695b	72	828	16.9	+64 53	5.98	5.98	Ao	10	0,10	37554i
23	3374	16.4	-59 30	9.2	9.2	B9	3	..	21695b	73	2438	16.9	+39 2	8.8	9.6	G5	1	..	38656i
24	3375	16.4	-59 58	8.4	8.9	F5	3	..	38798b	74	3330	16.9	- 3 3	9.3	9.8	F8	2	..	19228b
25	1970	16.4	-62 43	9.3	10.3	Ko	1	..	38798b	75	3294	16.9	-22 11	10.5	10.3	G	1	..	4045ob
26	2492	16.5	+ 7 46	8.1	9.1	Ko	3	E	38319i	76	3122	16.9	-22 53	9.8	10.3	K2	2	..	4045ob
27	3081	16.5	-12 9	7.7	8.2	F8	8	..	1914ob	77	9141	16.9	-30 34	10.1	11.4	K5	1	..	40312b
28	3354	16.5	-14 9	9.6	10.0	F5	2	..	1914ob	78	9143	16.9	-31 8	9.9	9.7	Fo	3	..	40312b
29	9894	16.5	-23 27	8.2	8.5	Ko	7	..	3995ob	79	6920	16.9	-43 0	7.1	7.4	Ko	7	..	41420b
30	8802	16.5	-29 3	8.3	8.9	F8	4	..	11310b	80	6084	16.9	-49 40	8.8	9.3	K2	2	..	38416b
31	6082	16.5	-49 57	9.0	9.7	K2	1	..	38416b	81	6087	16.9	-49 58	10.0	9.2	Ao	3	..	38416b
32	3496	16.5	-58 9	7.9	8.1	Ko	2	..	4303ob	82	3510	16.9	-58 42	8.4	9.0	Ko	4	..	21695b
33	3376	16.5	-59 37	6.7	8.0	Bo	7	..	21695b	83	3381	16.9	-59 15	9.5	9.5	Ao	3	..	21695b
34	1864	16.6	+47 9	8.8	9.1	Fo	3	..	37726i	84	33	16.9	-89 19	8.7	9.7	Ko	4	5,3	22578b
35	2183	16.6	+41 34	7.8	8.6	G5	4	..	37726i	85	2516	17.0	- 1 51	8.4	9.5	K2	2	..	19228b
36	2443	16.6	+18 45	8.1	8.9	G5	3	..	37770i	86	3409	17.0	-12 40	8.1	9.1	Ko	6	..	1914ob
37	2774	16.6	+ 0 35	9.3	10.1	G5	2	..	1337ob	87	3406	17.0	-21 5	9.6	10.6	Ko	2	..	4045ob
38	3159	16.6	-18 25	9.3	10.3	Ko	1	..	41220b	88	3124	17.0	-22 16	9.3	10.6	K5	2	..	4045ob
39	9698	16.6	-24 13	11.1	11.0	G5	1	..	3995ob	89	9900	17.0	-23 40	10.8	10.0	A2	4	..	3995ob
40	9136	16.6	-30 46	8.2	9.5	Ko	5	..	40312b	90	9705	17.0	-24 10	10.4	11.0	Go	1	..	3995ob
41	7188	16.6	-37 45	8.2	9.4	K5	2	..	41415b	91	8041	17.0	-32 45	7.82	8.8	K2	4	..	41232b
42	2843	16.6	-60 27	9.1	10.0	A2	3	..	38798b	92	6401	17.0	-48 13	7.6	7.2	A2	8	..	38416b
43	1885	16.6	-63 35	9.0	9.0	Ao	4	..	38798b	93	6090	17.0	-49 9	9.2	9.3	F5	2	..	38416b
44	2176	16.7	+37 38	9.6	10.2	Go	3	R	38658i	94	6089	17.0	-49 16	10.9	8.4	Ao	4	..	38416b
45	2177	16.7	+37 38	9.6	10.2	Ko	4	..	37572i	95	176	17.0	-87 48	8.1	9.1	Ko	4	2,2	22578b
46	2181	16.7	+35 53	8.0	9.0	Ko	4	..	37572i	96	433	17.1	+76 52	8.8	9.3	F8	3	..	37465i
47	2482	16.7	+ 9 43	6.67	6.73	A2	8	..	38319i	97	2139	17.1	+29 49	8.66	9.44	G5	3	..	37572i
48	2775	16.7	+ 0 30	8.7	9.9	K5	3	..	1337ob	98	3220	17.1	- 7 46	9.3	10.4	K2	1	..	19138b
49	2431	16.7	- 1 10	9.0	9.8	G5	3	..	19228b	99	3363	17.1	-17 17	9.6	10.1	F8	2	..	41220b
50	3057	16.7	- 5 10	7.90	8.68	G5	8	..	19138b	100	9706	17.1	-24 13	9.6	10.2	K2	3	..	3995ob

ANNALS OF HARVARD COLLEGE OBSERVATORY.

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11^h 17^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6768	17.1	-47 38	10.9	10.1	Ao	2	..	38416b	51	2142	17.5	+32 22	7.9	8.2	F2	7	..	37572i
2	6769	17.1	-47 57	8.0	8.3	Ko	6	..	38416b	52	3223	17.5	-7 31	8.3	9.4	K2	5	..	19138b
3	6092	17.1	-49 21	8.9	9.0	G5	2	..	38416b	53	3154	17.5	-8 17	6.74	6.80	A2	9	..	41240b
4	4495	17.1	-52 23	9.2	9.2	Ao	3	..	38406b	54	3083	17.5	-12 6	9.2	9.7	F8	2	..	19140b
5	4501	17.1	-53 49	8.4	9.1	Fo	5	..	21695b	55	3412	17.5	-12 43	9.8	10.9	K2	1	..	19140b
6	4309	17.1	-55 40	10.2	10.2	Ao	1	..	21695b	56	3254	17.5	-15 50	8.9	10.0	K2	2	..	41220b
7	4430	17.1	-56 51	8.9	9.4	A2	3	..	21695b	57	7155	17.5	-35 57	8.1	8.2	F5	5	..	41232b
8	4617	17.1	-57 23	9.6	9.7	A5	2	..	21695b	58	4508	17.5	-53 37	8.4	10.0	K2	3	..	38406b
9	3512	17.1	-58 47	8.9	8.9	B9	5	..	21695b	59	4314	17.5	-55 28	9.4	10.0	Go	3	..	37600b
10	1973	17.1	-62 45	9.3	9.3	Ao	2	..	38798b	60	1654	17.5	-64 22	9.1	9.1	B8	3	..	38798b
11	1723	17.1	-67 39	8.4	9.6	K5	1	..	38923b	61	522	17.6	+73 11	8.2	8.6	F5	4	5,4	37554i
12	2242	17.2	+35 34	7.60	8.60	Ko	5	..	37572i	62	3252	17.6	-10 38	9.2	10.2	Ko	2	..	19140b
13	7671	17.2	-33 30	9.0	10.0	Ko	2	..	41232b	63	3364	17.6	-18 3	9.1	9.6	F8	2	..	41225b
14	7151	17.2	-35 41	8.6	8.9	K5	2	..	41232b	64	3127	17.6	-23 11	8.1	7.9	Ao	8	..	39950b
15	6404	17.2	-48 24	8.3	7.8	B8	6	..	38416b	65	8045	17.6	-27 41	9.6	10.4	K5	2	..	40312b
16	3386	17.2	-59 57	8.9	9.5	Ao	2	..	38798b	66	9150	17.6	-30 21	8.3	8.5	F8	7	..	40312b
17	2852	17.2	-60 26	7.98	9.8	K5	2	..	38798b	67	7092	17.6	-38 33	7.28	7.6	B9	7	..	41415b
18	2850	17.2	-60 40	7.6	8.6	Ko	7	..	38798b	68	6925	17.6	-42 47	10.0	9.8	G5	1	..	41420b
19	2851	17.2	-60 58	9.6	9.6	Ao	2	..	38798b	69	7261	17.6	-44 50	10.0	9.6	Ao	2	..	41420b
20	2228	17.2	-61 13	9.4	9.5	A3	4	..	38798b	70	6415	17.6	-48 24	10.2	9.5	G5	2	..	38416b
21	2227	17.2	-61 37	10.1	10.1	B9	1	..	38798b	71	6096	17.6	-49 35	8.8	9.0	G5	3	..	38416b
22	2229	17.2	-61 49	8.6	8.6	B9	5	..	38798b	72	5943	17.6	-50 43	9.4	9.0	A3	2	..	38416b
23	2421	17.3	+40 44	6.63	7.05	F5	8	..	37726i	73	4503	17.6	-52 48	8.9	8.9	B9	4	..	38406b
24	2481	17.3	+17 59	7.04	8.04	Ko	4	..	37770i	74	4316	17.6	-55 11	10.2	10.3	A2	2	..	37600b
25	2432	17.3	-0 32	8.9	9.3	F5	3	..	19228b	75	1976	17.6	-62 24	10.2	10.3	A3	1	..	38798b
26	3058	17.3	-4 36	8.9	10.1	K5	2	..	19228b	76	1977	17.6	-62 56	9.1	9.1	B9	3	..	38798b
27	3126	17.3	-22 21	9.2	9.8	Ko	4	..	39950b	77	1242	17.6	-71 14	8.3	8.6	Fo	5	..	40298b
28	9710	17.3	-24 39	7.8	9.2	Ko	7	..	39950b	78	1125	17.6	-72 18	9.3	9.4	A2	2	..	40298b
29	8629	17.3	-26 6	8.7	8.9	A3	6	..	40312b	79	1720	17.7	+46 23	9.5	10.1	G	1	..	37726i
30	7674	17.3	-33 14	7.7	8.9	K2	4	..	41232b	80	1916	17.7	+45 25	8.2	8.3	A5	5	..	37726i
31	7400	17.3	-34 49	9.5	10.0	A2	1	..	41232b	81	1917	17.7	+44 57	9.5	10.1	G	2	..	37726i
32	4621	17.3	-57 48	9.0	8.9	B8	4	..	21695b	82	2249	17.7	+16 6	8.11	9.11	Ko	2	..	38319i
33	4624	17.3	-57 59	10.0	10.0	Ao	2	..	21695b	83	2326	17.7	+14 52	8.34	9.34	Ko	1	..	38319i
34	4623	17.3	-58 4	9.2	9.2	B8	4	..	21695b	84	3255	17.7	-15 37	8.10	8.10	Ao	6	..	41225b
35	2230	17.3	-62 4	10.3	10.3	Ao	1	..	38798b	85	3237	17.7	-16 46	9.3	9.8	F8	2	..	41220b
36	1366	17.3	-70 15	7.91	8.2	F5	4	..	38923b	86	3365	17.7	-17 40	9.2	9.8	Go	2	..	41225b
37	834	17.3	-73 55	8.8	8.9	A2	5	..	40298b	87	3366	17.7	-17 58	8.9	9.2	F2	4	..	41225b
38	957	17.4	+63 14	8.0	8.3	Fo	6	..	37716i	88	3249	17.7	-19 19	8.1	8.8	F8	7	..	41225b
39	2083	17.4	+44 2	5.06	5.84	G5	10	..	37726i	89	3296	17.7	-21 32	9.3	9.7	F5	5	..	39950b
40	2217	17.4	+33 46	8.6	8.6	Ao	5	..	37572i	90	7678	17.7	-33 54	8.6	10.2	Ko	1	..	41232b
41	2141	17.4	+31 58	9.2	9.5	Fo	3	..	37572i	91	6927	17.7	-42 24	9.1	8.9	F8	4	..	41420b
42	2367	17.4	+25 17	8.4	8.9	F8	4	..	37505i	92	7006	17.7	-44 6	6.29	7.3	G5	8	..	41420b
43	8510	17.4	-26 41	9.3	9.8	F2	4	..	40312b	93	6928	17.7	-46 8	8.6	8.9	Ao	4	..	41420b
44	6775	17.4	-47 58	10.2	10.0	Go	2	..	38416b	94	6097	17.7	-49 23	9.1	8.3	Fo	4	..	38416b
45	6094	17.4	-49 35	9.1	9.2	Go	3	..	38416b	95	4511	17.7	-53 15	9.0	10.0	Ko	2	..	38406b
46	4507	17.4	-53 24	9.0	9.4	Ao	4	..	38406b	96	4318	17.7	-56 3	7.6	9.1	K2	6	..	21695b
47	3389	17.4	-59 26	8.4	8.6	B	4	..	21695b	97	4630	17.7	-57 50	7.1	8.2	Ko	3	..	43030b
48	835	17.4	-73 13	8.9	10.1	K5	1	..	40298b	98	3393	17.7	-59 41	9.1	9.5	B	2	R	38798b
49	1371	17.5	+59 8	9.2	10.0	G5	2	..	37716i	99	1244	17.7	-71 29	9.4	9.4	Ao	3	..	40298b
50	2231	17.5	+37 54	9.0	9.8	G5	2	..	38658i	100	1243	17.7	-71 52	9.2	9.2	Ao	2	..	40298b

THE HENRY DRAPER CATALOGUE.

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11^h 17^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2141	17.8	+30 6	8.3	8.8	F8	5	..	37572i	51	8956	18.1	-31 19	9.6	10.6	K2	1	..	40312b
2	2556	17.8	+1 28	8.6	9.2	Go	2	..	13370b	52	8958	18.1	-31 53	9.4	10.0	Ko	1	..	41232b
3	2517	17.8	-2 6	9.27	9.77	F8	1	..	19228b	53	7685	18.1	-34 7	8.6	8.5	F5	5	..	41232b
4	3224	17.8	-7 33	8.6	8.9	F2	7	..	19138b	54	4324	18.1	-55 18	10.1	10.2	A2	3	..	37600b
5	7680	17.8	-33 31	8.7	9.5	Go	3	..	41232b	55	3534	18.1	-58 24	8.4	8.6	B2	4	..	21695b
6	7407	17.8	-34 51	8.6	10.0	K5	1	..	41232b	56	2245	18.1	-61 54	8.4	8.4	B9	5	..	38798b
7	6418	17.8	-48 54	9.0	9.0	F5	3	..	38416b	57	2109	18.2	+32 58	9.2	9.5	Fo	4	..	37572i
8	6420	17.8	-49 4	9.8	9.3	F5	2	..	38416b	58	2446	18.2	+19 36	8.70	9.26	Go	2	..	37770i
9	6098	17.8	-49 15	10.0	9.5	F8	2	..	38416b	59	2444	18.2	+6 54	8.9	9.9	Ko	3	..	13731b
10	3527	17.8	-58 44	10.1	10.1	B8	1	..	21695b	60	2782	18.2	+0 41	6.26	7.26	Ko	8	..	11330b
11	2865	17.8	-60 11	8.98	8.6	B3	4	..	38798b	61	9916	18.2	-24 0	11.6	9.4	F5	5	..	39950b
12	2860	17.8	-60 46	10.0	10.0	B9	2	..	38798b	62	9155	18.2	-31 1	11.1	10.2	A3	2	..	40312b
13	803	17.8	-75 54	9.0	9.6	Go	3	..	39198b	63	7162	18.2	-35 51	8.9	9.4	K5	2	..	41415b
14	2454	17.9	+4 40	7.96	8.38	F5	6	..	13370b	64	7013	18.2	-43 28	8.0	9.2	K2	2	..	41420b
15	3250	17.9	-20 5	7.58	7.4	A2	8	..	41225b	65	6424	18.2	-48 50	10.9	10.1	A2	1	..	38416b
16	3128	17.9	-22 18	9.8	10.6	K5	2	..	39950b	66	1727	18.2	-67 14	8.4	9.4	Ko	1	..	38923b
17	9912	17.9	-23 22	10.1	10.3	Ko	2	..	39950b	67	1561	18.3	+52 35	7.92	8.20	Fo	5	..	37717i
18	6931	17.9	-42 52	11.5	10.1	A	1	..	41420b	68	2109	18.3	+43 40	8.8	9.6	G5	2	..	37726i
19	6422	17.9	-48 13	9.4	9.5	Ko	2	..	38416b	69	2441	18.3	+39 13	8.2	8.7	F8	2	..	38656i
20	6421	17.9	-48 59	9.8	10.1	K	1	..	38416b	70	2153	18.3	+29 16	8.2	9.0	G5	4	E	37572i
21	6099	17.9	-49 44	9.6	9.3	F5	2	..	38416b	71	2443	18.3	+6 40	8.7	9.7	Ko	4	..	13731b
22	4507	17.9	-52 49	6.3	7.2	B9	10	..	38406b	72	3065	18.3	-4 35	9.3	10.1	G5	2	..	19394b
23	4514	17.9	-53 50	9.0	10.0	G	1	R	38406b	73	3417	18.3	-12 21	8.8	9.3	F8	2	..	19140b
24	4499	17.9	-54 28	10.0	10.0	Ao	2	..	38406b	74	3251	18.3	-19 27	8.9	10.3	K2	3	O,I	39947b
25	4321	17.9	-55 21	8.9	9.9	K5	2	..	21695b	75	3129	18.3	-23 9	7.21	7.9	Ko	8	..	39950b
26	3528	17.9	-59 4	9.3	9.3	A	2	..	21695b	76	9716	18.3	-25 1	9.00	9.8	Ko	5	..	39950b
27	2867	17.9	-60 31	9.2	9.0	B2	3	..	38798b	77	8638	18.3	-25 45	9.9	10.1	G5	2	..	40312b
28	2866	17.9	-60 49	10.2	10.3	A2	2	..	38798b	78	8962	18.3	-31 30	10.4	10.6	K2	1	..	40312b
29	723	17.9	-75 43	10.3	10.3	Ao	1	..	39198b	79	7411	18.3	-34 25	8.9	9.7	K5	2	..	41232b
30	1866	18.0	+46 55	8.8	9.8	Ko	1	..	37726i	80	5953	18.3	-50 14	6.74	7.8	Ko	7	..	38416b
31	3103	18.0	-3 30	9.3	10.1	G5	1	..	19394b	81	4446	18.3	-56 58	9.5	9.5	Ao	2	..	21695b
32	3256	18.0	-16 4	8.1	8.5	F5	5	..	41225b	82	4444	18.3	-57 5	8.0	8.0	B9	4	..	43030b
33	3297	18.0	-21 19	10.0	10.6	K2	2	2,I	39950b	83	4640	18.3	-57 46	7.34	8.2	A2	3	..	43030b
34	8636	18.0	-25 15	9.70	10.7	Ko	2	..	39950b	84	3538	18.3	-58 26	8.3	8.3	Ao	6	..	21695b
35	8050	18.0	-32 14	8.6	10.0	G5	1	..	41232b	85	3540	18.3	-58 49	9.2	9.2	B8	3	..	21695b
36	7158	18.0	-35 19	8.9	8.8	Go	3	..	41232b	86	1982	18.3	-63 0	8.7	8.7	B9	4	..	38798b
37	7159	18.0	-35 41	7.8	7.5	A5	8	..	41232b	87	642	18.4	+68 40	9.1	9.7	Go	2	..	37554i
38	6933	18.0	-42 24	7.5	8.7	K5	5	..	41420b	88	830	18.4	+65 36	8.2	8.7	F8	4	..	37554i
39	4441	18.0	-56 14	8.2	9.2	Ko	4	..	21695b	89	2246	18.4	+34 47	8.97	8.97	Ao	4	..	37572i
40	3530	18.0	-59 4	9.1	9.6	Ao	4	..	21695b	90	3085	18.4	-11 33	8.0	9.1	K2	6	..	19140b
41	2244	18.0	-61 19	9.1	10.1	G5	2	..	38798b	91	3367	18.4	-18 14	5.15	5.49	F2	9	R	5875b
42	1655	18.0	-64 26	9.1	10.2	K2	1	..	38798b	92	3298	18.4	-21 19	10.0	10.3	G	1	..	40450b
43	1126	18.0	-72 58	8.6	8.6	Ao	5	..	40298b	93	7163	18.4	-35 37	5.12	6.7	K5	9	5,9	41232b
44	696	18.1	+67 12	9.1	10.1	Ko	2	..	37754i	94	6939	18.4	-42 41	9.8	9.8	Go	2	..	41420b
45	1560	18.1	+52 1	8.2	9.2	Ko	2	..	38648i	95	7016	18.4	-43 50	8.5	9.2	K2	1	..	41420b
46	2245	18.1	+35 21	9.6	9.7	A2	4	..	37572i	96	6790	18.4	-47 41	9.8	10.1	G5	2	..	38416b
47	2443	18.1	+7 8	7.04	7.82	G5	8	..	13731b	97	4502	18.4	-54 44	9.9	10.0	A2	2	..	38406b
48	3359	18.1	-14 9	8.3	9.4	K2	4	..	19140b	98	4642	18.4	-57 28	9.9	9.9	Ao	1	..	21695b
49	8825	18.1	-28 21	7.36	7.8	Ao	8	..	40312b	99	3544	18.4	-58 46	8.7	8.9	Ao	6	..	21695b
50	9154	18.1	-30 20	8.4	9.1	Ko	4	..	40312b	100	2253	18.4	-61 32	8.1	8.6	B8	6	..	38798b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

99000

11^h 18^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1818	18.5	+49 56	8.8	9.3	F8	2	..	38648i	51	2265	18.8	-61 44	9.0	9.0	Ko	5	..	38798b
2	2234	18.5	+37 46	6.88	7.16	Fo	7	..	38401i	52	1869	18.9	+47 27	8.6	8.7	A2	3	..	37726i
3	2204	18.5	+26 27	9.6	10.2	Go	1	..	37505i	53	2110	18.9	+33 39	8.7	9.5	G5	4	..	37572i
4	2351	18.5	+17 42	7.03	7.09	A2	6	..	37770i	54	2401	18.9	+13 1	8.7	9.8	K2	2	..	38319i
5	3337	18.5	-2 44	8.5	9.6	K2	3	..	19228b	55	2418	18.9	+1 58	5.52	6.30	G5	9	..	11330b
6	3238	18.5	-17 4	8.1	9.1	Ko	5	..	41225b	56	3254	18.9	-19 22	8.5	10.0	Mc	2	..	41225b
7	3368	18.5	-17 46	8.1	9.1	Ko	4	..	41225b	57	3256	18.9	-19 37	10.0	10.3	K2	2	..	39947b
8	3130	18.5	-23 1	9.3	9.8	K2	3	..	39950b	58	3409	18.9	-20 43	8.1	8.5	Go	5	..	41225b
9	7010	18.5	-46 53	9.6	9.5	A3	4	..	38416b	59	R	18.9	-22 46	10.8	10.3	F8	1	..	39950b
10	4516	18.5	-52 33	9.0	9.0	F8	4	..	38406b	60	8525	18.9	-26 24	7.53	8.9	Ko	7	..	40312b
11	4517	18.5	-52 51	9.6	9.6	Ao	3	..	38406b	61	9166	18.9	-31 5	9.6	9.5	Go	3	..	40312b
12	2879	18.5	-60 59	9.5	9.5	Ao	2	..	38798b	62	7172	18.9	-35 32	6.83	7.4	Ao	9	..	41232b
13	2255	18.5	-61 46	9.8	9.8	B9	2	..	38798b	63	7114	18.9	-38 14	9.5	9.5	G5	1	..	41415b
14	804	18.5	-74 34	9.3	10.1	G5	2	..	39198b	64	7278	18.9	-44 56	8.9	9.5	Go	3	..	41420b
15	662	18.5	-77 3	6.43	7.1	A2	10	..	21530b	65	4524	18.9	-52 38	9.0	9.0	B9	5	..	38406b
16	643	18.5	-79 7	8.7	9.7	Ko	1	..	13466b	66	4508	18.9	-54 18	9.1	9.4	B9	4	..	38406b
17	409	18.5	-83 14	8.8	9.8	Ko	3	0,2	13466b	67	3415	18.9	-59 15	9.3	9.8	F8	2	..	21695b
18	7213	18.6	-37 20	9.6	9.7	A	1	..	41415b	68	3417	18.9	-60 1	9.88	9.5	B5	2	..	38798b
19	6431	18.6	-48 48	10.5	9.8	Ao	2	..	38416b	69	1534	18.9	-69 24	8.6	8.6	Ao	2	..	38923b
20	5959	18.6	-50 39	9.4	9.5	F5	3	..	38416b	70	1242	19.0	+61 26	9.1	9.9	G5	3	..	37716i
21	4329	18.6	-55 10	9.56	9.7	A2	3	..	21695b	71	1326	19.0	+60 12	7.71	8.49	G5	6	..	37716i
22	4449	18.6	-56 14	6.02	6.8	Ao	7	..	43030b	72	1439	19.0	+54 32	9.1	9.7	G	1	..	37717i
23	4645	18.6	-57 31	8.9	9.9	Ko	1	..	21695b	73	2050	19.0	+49 9	7.10	8.28	K5	5	0,5	38648i
24	3411	18.6	-59 58	8.9	9.8	B3	2	..	38798b	74	2419	19.0	+2 24	10.0	11.0	Ko	1	..	11330b
25	2882	18.6	-61 5	9.5	9.5	B8	3	..	38798b	75	8834	19.0	-28 9	10.4	10.7	Ao	2	..	40312b
26	2257	18.6	-61 51	8.6	10.0	K2	3	..	38798b	76	7219	19.0	-37 56	8.6	8.9	G5	3	..	41415b
27	1661	18.6	-65 58	9.3	9.3	B9	2	..	38798b	77	7117	19.0	-38 52	9.2	9.2	B9	2	..	41415b
28	2348	18.7	+11 5	4.03	4.45	F5	..	R	1626c	78	7023	19.0	-43 43	9.6	10.0	Ko	1	..	41420b
29	2455	18.7	+4 10	8.9	9.9	Ko	1	..	13370b	79	6117	19.0	-49 17	9.2	9.3	G5	2	..	38416b
30	2518	18.7	-2 4	8.7	9.9	K5	1	..	19228b	80	6116	19.0	-49 31	8.5	8.6	Ko	5	..	38416b
31	3253	18.7	-19 34	9.8	10.3	Go	2	..	39947b	81	6114	19.0	-49 50	8.9	9.0	Ko	4	..	38416b
32	8058	18.7	-27 54	9.4	11.0	K5	2	..	40312b	82	4525	19.0	-52 39	9.0	9.0	Ao	5	..	38406b
33	9060	18.7	-29 57	9.1	9.7	Ko	3	..	40312b	83	4510	19.0	-54 51	10.0	10.0	B8	2	..	38406b
34	6432	18.7	-48 24	9.8	10.0	A3	2	..	38416b	84	4336	19.0	-55 27	10.3	10.3	Ao	2	..	37600b
35	4521	18.7	-54 7	9.2	10.2	Ko	2	..	38406b	85	3557	19.0	-58 32	8.3	8.0	Ao	7	..	21695b
36	4330	18.7	-55 18	10.0	10.0	Ao	3	..	37600b	86	1729	19.0	-67 43	9.1	9.1	B9	2	..	38923b
37	4332	18.7	-55 31	9.6	10.6	Ko	2	..	37600b	87	2383	19.1	+14 43	8.59	9.37	G5	2	..	38319i
38	3548	18.7	-59 1	9.0	9.0	Ao	4	..	21695b	88	2382	19.1	+14 27	8.1	9.1	Ko	3	..	38319i
39	1656	18.7	-64 10	9.1	10.2	K2	1	..	38798b	89	3275	19.1	-10 8	8.26	9.44	K5	2	..	19140b
40	2236	18.8	+38 15	8.7	9.8	K2	1	..	38656i	90	3420	19.1	-12 50	9.2	10.4	K5	1	..	19140b
41	3370	18.8	-6 36	8.6	8.9	Fo	7	..	19138b	91	3167	19.1	-18 26	8.7	9.7	Ko	3	..	39947b
42	3274	18.8	-9 53	8.3	9.3	Ko	7	..	19140b	92	3411	19.1	-20 15	9.23	10.1	G5	1	..	41225b
43	8061	18.8	-27 57	10.6	10.6	Ko	3	..	40312b	93	3132	19.1	-22 41	10.6	10.1	Go	2	..	39950b
44	8062	18.8	-27 58	10.6	10.4	Ko	4	..	40312b	94	7085	19.1	-39 58	8.3	9.3	Ma	2	..	41415b
45	9163	18.8	-30 26	8.4	10.6	K5	1	..	40312b	95	6526	19.1	-41 23	8.4	8.6	A2	4	..	41420b
46	7151	18.8	-36 54	8.9	8.9	Fo	4	..	41415b	96	7022	19.1	-46 50	10.0	9.8	F8	2	..	38416b
47	4522	18.8	-53 20	8.9	9.4	Fo	4	..	38406b	97	6119	19.1	-50 1	10.2	9.5	A2	2	..	38416b
48	3550	18.8	-58 14	7.12	8.6	Ko	7	..	21695b	98	4526	19.1	-53 41	9.9	10.2	F2	2	..	38406b
49	3551	18.8	-59 2	9.0	9.5	F5	3	R	21695b	99	4525	19.1	-53 56	9.5	10.3	G5	1	..	38406b
50		18.8	-59 2			A3				100	4337	19.1	-55 12	10.2	10.3	A2	3	..	37600b

THE HENRY DRAPER CATALOGUE.

99100

11^h 19^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4654	19.1	-57 43	7.2	8.6	Ko	7	..	21695b	51	6809	19.5	-47 25	9.6	9.6	G5	3	..	38416b
2	2269	19.1	-62 6	10.0	10.0	Ao	1	..	38798b	52	6808	19.5	-47 54	8.4	10.0	K2	4	..	38416b
3	1657	19.1	-64 24	6.84	6.72	B5	..	4,5 R	56,129	53	6446	19.5	-48 57	9.8	9.5	F8	2	..	38416b
4	1488	19.1	-64 24	5.66	5.54	A2	2	..	38923b	54	4463	19.5	-56 31	8.6	9.4	G5	4	..	21695b
5	843	19.1	-68 40	9.0	9.1	A2	2	..	39198b	55	4663	19.5	-57 49	10.0	10.0	Ao	1	..	21695b
6	1999	19.2	+27 46	8.7	9.5	G5	3	..	37505i	56	3568	19.5	-58 22	9.2	9.2	Ao	2	..	21695b
7	2488	19.2	+17 53	7.50	8.28	G5	3	..	37770i	57	3419	19.5	-59 45	10.1	10.1	Ao	1	..	38798b
8	2437	19.2	-0 59	8.9	9.9	Ko	2	..	19394b	58	2891	19.5	-60 19	8.5	8.7	B8	7	..	38798b
9	3258	19.2	-10 30	9.8	10.8	K	1	..	19140b	59	2892	19.5	-60 32	9.0	8.9	B9	6	..	38798b
10	3257	19.2	-10 35	8.5	8.9	F5	8	..	19140b	60	2893	19.5	-60 48	9.1	9.3	Bo	4	..	38798b
11	3133	19.2	-22 34	10.5	10.0	Go	2	..	39950b	61	724	19.5	-75 27	8.9	8.9	Ao	7	..	39198b
12	7026	19.2	-44 7	9.0	9.8	Mb	2	..	41420b	62	664	19.5	-76 10	9.2	10.6	Mb	..	..	M
13	6801	19.2	-47 35	10.5	10.3	F8	1	..	38416b	63	2084	19.6	+43 46	8.6	9.4	G5	1	..	37726i
14	6438	19.2	-49 2	10.2	9.8	G5	1	..	38416b	64	2146	19.6	+32 23	8.2	9.2	Ko	6	..	37572i
15	4456	19.2	-56 8	8.6	9.2	G5	5	..	21695b	65	2150	19.6	+30 41	9.3	10.1	G5	2	..	37572i
16	2890	19.2	-61 7	9.1	10.4	K5	1	..	38798b	66	2421	19.6	+2 38	7.9	8.7	G5	6	..	11330b
17	2178	19.3	+37 36	9.0	10.0	Ko	1	..	38656i	67	3260	19.6	-10 18	5.07	6.25	K5	6	R	2471b
18	2149	19.3	+30 43	9.6	9.9	F	2	..	37572i	68	9073	19.6	-29 12	9.7	10.2	Ko	3	..	40312b
19	2354	19.3	+22 19	8.9	8.9	Ao	2	..	37505i	69	7708	19.6	-33 44	7.45	7.4	Ao	7	..	41232b
20	2314	19.3	+21 9	8.2	8.8	Go	4	E	38229i	70	7160	19.6	-36 32	8.6	8.9	Ao	4	..	41415b
21	2254	19.3	+16 26	7.9	8.4	F8	3	..	37770i	71	6529	19.6	-42 7	6.42	5.6	B3	8	..	18651b
22	2384	19.3	+14 30	8.6	9.6	Ko	2	..	38319i	72	7033	19.6	-43 42	9.6	9.6	G5	1	..	41420b
23	2402	19.3	+13 19	8.9	9.9	Ko	1	..	38319i	73	5980	19.6	-50 38	9.2	9.3	Fo	3	..	38416b
24	2420	19.3	+2 28	9.3	10.4	K2	1	..	11330b	74	4514	19.6	-54 50	9.6	10.0	F5	1	..	38406b
25	3275	19.3	-5 21	7.04	7.46	F5	9	..	19394b	75	1990	19.6	-62 29	8.7	8.7	Ao	7	..	38798b
26	3421	19.3	-12 22	8.7	9.0	F2	3	..	19140b	76	1663	19.7	+51 3	8.38	8.80	F5	4	..	38648i
27	8967	19.3	-31 13	9.3	10.3	K5	2	..	40312b	77	1820	19.7	+49 55	8.07	8.57	F8	3	..	38648i
28	6121	19.3	-49 40	9.4	10.1	K2	1	..	38416b	78	2156	19.7	+29 29	8.8	9.8	Ko	2	E	37505i
29	4526	19.3	-52 17	8.2	8.1	F5	7	..	38406b	79	2422	19.7	+1 47	8.7	9.7	Ko	2	..	11330b
30	4513	19.3	-54 13	10.0	10.0	Ao	2	..	38406b	80	3276	19.7	-6 13	9.1	9.5	F5	4	..	19138b
31	4659	19.3	-57 39	8.5	9.5	Ko	2	..	21695b	81	3169	19.7	-18 57	9.3	9.7	F5	3	..	39947b
32	1128	19.3	-72 44	8.9	9.9	Ko	2	..	40298b	82	3259	19.7	-19 17	9.8	9.5	Go	3	..	41225b
33	411	19.3	-83 47	9.0	10.0	Ko	1	..	45456b	83	9936	19.7	-23 56	8.7	9.4	Ko	5	..	39950b
34	2112	19.4	+43 42	9.8	10.3	F8	1	..	37726i	84	8535	19.7	-26 49	10.1	10.4	Go	3	..	40312b
35	3109	19.4	-3 51	9.6	10.4	G5	2	..	19394b	85	8843	19.7	-28 38	7.68	9.2	Ma	6	..	40312b
36	3108	19.4	-3 54	10.0	11.2	K5	2	..	19394b	86	9077	19.7	-29 40	9.4	9.7	F5	3	..	40312b
37	3300	19.4	-21 33	8.04	8.8	K2	7	..	39950b	87	9179	19.7	-30 58	10.1	9.7	F5	2	..	40312b
38	3135	19.4	-22 17	9.6	9.7	G5	3	..	39950b	88	7162	19.7	-36 26	9.0	9.4	Ao	3	..	41415b
39	8531	19.4	-26 28	9.3	10.7	Ma	2	..	40312b	89	7161	19.7	-36 38	8.6	8.9	Ao	4	..	41415b
40	7703	19.4	-34 7	8.3	9.1	K2	4	..	41232b	90	7033	19.7	-46 57	8.9	8.3	Go	6	..	38416b
41	6441	19.4	-48 8	10.0	9.8	Ko	2	..	38416b	91	3425	19.7	-59 22	8.9	9.6	Ko	3	..	21695b
42	4458	19.4	-56 17	9.0	10.0	A2	3	..	21695b	92	2279	19.7	-61 11	9.5	9.5	Ao	3	..	38798b
43	4460	19.4	-57 6	8.5	9.1	G5	4	..	21695b	93	1992	19.7	-63 8	8.8	8.7	B5	4	..	38798b
44	4661	19.4	-57 20	6.5	8.2	K5	2	R	43030b	94	1871	19.8	+47 18	8.8	9.4	Go	2	..	37726i
45	3566	19.4	-58 45	8.4	8.3	B3	9	..	21695b	95	2208	19.8	+26 42	8.6	9.1	F8	3	..	37505i
46	3567	19.4	-58 56	8.0	8.9	Ao	3	..	21695b	96	2335	19.8	+11 59	5.96	6.96	Ko	..	0,7	1626c
47	1659	19.4	-64 47	7.9	9.0	K2	3	E	38834b	97	3164	19.8	-9 2	8.8	9.1	Fo	3	..	41240b
48	1662	19.4	-65 17	8.18	8.2	Ao	5	..	38798b	98	3261	19.8	-19 17	10.0	10.3	Go	2	..	39947b
49	369	19.5	+81 6	9.5	9.5	Ao	2	..	37465i	99	3136	19.8	-22 17	7.18	7.9	A3	10	..	39950b
50										100	9180	19.8	-30 46	9.9	10.6	K5	1	..	40312b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

99200

11^h 19^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7289	19.8	-45 4	10.2	9.8	A2	1	..	41420b	51	2498	20.2	+ 8 30	8.1	8.5	F5	7	..	13731b
2	4537	19.8	-52 12	8.8	9.8	Ko	1	..	38406b	52	2450	20.2	+ 6 39	9.7	10.5	G5	1	..	13731b
3	4516	19.8	-54 35	8.7	10.0	Mb	3	..	38406b	53	3278	20.2	- 5 19	9.00	10.07	K2	2	0,1	41240b
4	3575	19.8	-58 44	8.9	8.6	B9	8	..	21695b	54	3373	20.2	- 6 38	9.6	10.8	K5	2	..	41240b
5	1537	19.8	-69 35	9.3	9.1	B	1	..	38923b	55	3373	20.2	-17 31	10.0	10.5	F8	3	0,1	39947b
6	844	19.8	-73 10	9.8	9.8	Ao	2	..	40298b	56	3372	20.2	-18 3	7.07	7.21	A5	8	..	41225b
7	2153	19.9	+30 19	7.54	7.82	Fo	5	..	37572i	57	R	20.2	-23 5	10.6	10.8	Ko	1	..	39950b
8	2316	19.9	+20 58	8.0	8.8	G5	2	E	38229i	58	9949	20.2	-23 50	10.8	10.8	Ko	1	..	39950b
9	2404	19.9	+13 33	8.1	8.2	A2	5	..	38319i	59	9731	20.2	-24 28	10.1	11.5	Ko	1	..	39950b
10	2521	19.9	- 1 39	6.66	6.80	A5	10	..	19228b	60	8076	20.2	-27 37	11.3	11.5	K2	1	..	40312b
11	3244	19.9	-17 8	4.14	4.28	A5	..	R	2506c	61	8075	20.2	-28 7	8.7	9.3	A3	5	..	40312b
12	9939	19.9	-23 45	10.8	10.3	F8	3	..	39950b	62	4543	20.2	-52 31	8.6	8.3	A2	5	..	38406b
13	7427	19.9	-34 44	9.6	9.4	A3	2	..	41232b	63	2906	20.2	-60 30	9.5	9.5	B8	3	..	38798b
14	7121	19.9	-38 27	8.7	8.0	K2	1	..	41415b	64	1248	20.2	-71 42	5.69	6.4	B3	..	5,10	56,129
15	7038	19.9	-43 36	9.0	9.5	Ko	2	..	41420b	65	846	20.3	+64 22	9.0	9.4	F5	3	..	38255i
16	7293	19.9	-44 53	8.8	8.6	F8	4	..	41420b	66	1563	20.3	+52 39	7.22	7.50	Fo	6	..	37717i
17	4534	19.9	-54 7	9.4	10.6	K5	1	..	38406b	67	2154	20.3	+30 32	6.88	7.16	Fo	8	..	37572i
18	4668	19.9	-57 11	8.7	9.1	Ao	4	..	21695b	68	2489	20.3	+ 9 28	8.5	9.1	Go	4	..	13731b
19	4667	19.9	-57 38	7.2	7.9	Ao	3	..	43030b	69	3091	20.3	-11 25	8.6	8.9	F2	5	..	19140b
20	3430	19.9	-59 15	8.7	8.3	B9	6	..	21695b	70	3416	20.3	-20 43	8.7	9.5	G5	5	..	39950b
21	3433	19.9	-60 0	9.13	10.3	K2	2	..	38798b	71	3138	20.3	-23 6	10.6	10.1	Fo	4	..	39950b
22	1461	20.0	+54 57	8.4	8.7	Fo	4	..	37717i	72	9734	20.3	-24 30	9.9	11.0	Ko	2	..	39950b
23	2600	20.0	+20 2	8.4	9.5	K2	1	E	38229i	73	8541	20.3	-26 19	8.5	9.2	A2	7	..	40312b
24	2488	20.0	+ 9 27	9.0	9.1	A3	2	..	13731b	74	7094	20.3	-39 54	8.2	8.9	K2	3	..	41415b
25	2448	20.0	+ 6 17	8.0	9.1	K2	7	..	13731b	75	6459	20.3	-48 29	8.0	9.0	Ko	4	..	38416b
26	3111	20.0	- 4 2	9.2	10.3	K2	3	..	19394b	76	4677	20.3	-58 7	9.7	10.0	Fo	2	..	21695b
27	3263	20.0	-10 40	8.9	9.2	F2	4	..	19140b	77	2910	20.3	-60 11	9.88	10.0	B8	2	..	38798b
28	3090	20.0	-12 0	8.5	9.5	Ko	5	..	19140b	78	2912	20.3	-60 34	10.1	10.0	B5	2	R	38798b
29	1995	20.0	-62 43	9.1	9.2	A2	4	..	38798b	79	2911	20.3	-61 6	7.4	9.0	K5	7	..	38798b
30	1581	20.0	-66 27	8.4	8.5	A2	7	..	38798b	80	1582	20.3	-67 1	8.4	9.6	K5	2	..	38923b
31	698	20.1	+67 18	7.77	8.77	Ko	4	..	37554i	81	496	20.3	-81 39	9.2	9.2	Ao	3	0,2	45456b
32	1377	20.1	+59 18	8.9	9.7	G5	2	..	37716i	82	959	20.4	+63 2	8.8	8.8	Ao	3	..	38285i
33	2113	20.1	+43 10	8.0	8.5	F8	5	..	37726i	83	1518	20.4	+56 24	5.85	6.63	G5	9	..	37717i
34	2179	20.1	+37 23	8.8	9.4	Go	2	..	38656i	84	2188	20.4	+41 29	7.92	8.99	K2	3	0,2	38656i
35	2250	20.1	+35 43	8.8	9.4	Go	2	..	38401i	85	2356	20.4	+17 1	5.63	5.97	F2	8	0,8	37770i
36	2265	20.1	+31 9	9.6	10.0	F5	2	..	37572i	86	2490	20.4	+ 9 44	9.22	10.00	G5	1	..	13731b
37	2438	20.1	- 1 5	9.7	10.7	Ko	1	..	19394b	87	2501	20.4	+ 8 34	8.9	9.9	Ko	3	..	13731b
38	3231	20.1	- 7 55	8.1	9.1	Ko	7	..	19138b	88	3342	20.4	- 2 41	8.9	9.9	Ko	2	..	19394b
39	8650	20.1	-25 39	9.9	9.8	A3	4	..	40312b	89	3281	20.4	- 5 27	9.2	10.4	K5	1	3,1	19394b
40	8979	20.1	-31 27	8.3	8.5	G5	5	..	41232b	90	3092	20.4	-11 37	8.3	9.4	K2	5	..	19140b
41	7185	20.1	-35 22	9.2	9.4	Ko	4	..	41232b	91	3139	20.4	-22 16	10.7	10.6	Ko	1	..	39950b
42	7166	20.1	-36 11	9.2	9.7	Ko	1	..	41415b	92	9735	20.4	-24 15	10.6	10.6	Go	3	..	39950b
43	5671	20.1	-51 56	9.2	9.3	Fo	3	..	38406b	93	7096	20.4	-39 11	8.9	9.2	Fo	2	..	41415b
44	4349	20.1	-55 20	8.60	9.5	Ko	4	..	21695b	94	6533	20.4	-41 47	10.4	10.1	Ao	1	..	41420b
45	4470	20.1	-56 16	9.0	9.4	A2	4	..	21695b	95	4521	20.4	-55 8	9.2	10.2	Ko	1	..	38406b
46	3435	20.1	-59 50	9.8	9.8	Ao	1	..	38798b	96	4475	20.4	-56 15	8.3	8.5	B5	7	..	21695b
47	2904	20.1	-60 59	9.6	9.6	B9	4	..	38798b	97	3442	20.4	-59 20	9.2	9.2	B8	2	..	21695b
48	1997	20.1	-62 47	8.1	8.1	B9	8	..	38798b	98	1891	20.4	-63 33	9.0	9.0	Ao	3	..	38798b
49	330	20.1	-84 48	9.1	9.2	A5	3	0,3	13459b	99	1880	20.4	-64 2	8.3	9.3	Ko	2	..	38798b
50	524	20.2	+72 55	9.1	9.9	G5	2	..	37554i	100	1583	20.4	-66 15	9.8	9.8	B9	2	..	38798b

THE HENRY DRAPER CATALOGUE.

99300

11^h 20^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1493	m. 20.4	° -68 46	9.2	9.2	B9	1	..	38923b	51	4486	m. 20.8	° -57 1	10.0	10.0	Ao	2	..	21695b
2	2021	20.5	+27 19	7.15	7.21	A2	8	..	37505i	52	4681	20.8	-57 25	8.9	10.0	K2	1	..	21695b
3	2601	20.5	+20 33	8.3	9.1	G5	2	E	38229i	53	3595	20.8	-58 14	8.8	9.5	G5	2	..	21695b
4	2451	20.5	+6 18	8.7	9.0	F2	7	..	13731b	54	2920	20.8	-60 43	9.2	9.0	B3	5	..	38798b
5	2461	20.5	+3 51	6.70	6.76	A2	8	..	11330b	55	2919	20.8	-60 49	8.8	9.6	Go	4	..	38798b
6	2561	20.5	+1 34	8.7	9.7	Ko	2	..	11330b	56	1539	20.8	-69 19	9.1	9.1	B9	2	..	38923b
7	3233	20.5	-7 18	8.5	9.0	F8	6	..	19138b	57	107	20.8	-88 25	7.9	8.9	Ko	4	0,4	13459b
8	3417	20.5	-20 41	8.6	9.4	F8	7	..	39950b	58	1178	20.9	+61 55	8.8	9.8	Ko	1	..	38285i
9	8079	20.5	-27 46	11.1	10.4	F5	2	..	40312b	59	2349	20.9	+23 16	7.22	7.50	Fo	5	0,6	37770i
10	5683	20.5	-51 20	8.4	8.7	Go	5	..	38406b	60	2500	20.9	+3 0	9.3	10.4	K2	1	..	11330b
11	4546	20.5	-52 28	8.2	8.9	Ko	3	..	38406b	61	2563	20.9	+1 35	8.6	9.6	Ko	3	..	11330b
12	3587	20.5	-59 6	8.1	8.7	G5	8	..	21695b	62	2440	20.9	-0 31	8.1	8.4	Fo	5	E	11330b
13	2914	20.5	-60 44	8.7	9.5	G5	5	..	38798b	63	3423	20.9	-13 12	7.01	8.36	Ma	7	5,8	21155b
14	2913	20.5	-60 59	8.9	9.5	B9	4	..	38798b	64	8661	20.9	-25 8	12.0	11.0	G5	4	R	39950b
15	2002	20.5	-62 12	9.8	9.8	Ao	2	..	38798b	65	7049	20.9	-43 33	9.0	10.2	K2	2	..	41420b
16	2003	20.5	-62 53	7.3	7.1	B3	8	..	38798b	66	7050	20.9	-43 43	10.9	10.5	Ao	1	..	41420b
17	1584	20.5	-66 34	7.2	7.2	B9	8	..	38798b	67	6822	20.9	-47 46	10.0	10.8	F8	2	..	38416b
18	607	20.6	+69 7	8.8	9.2	F5	3	..	37554i	68	6151	20.9	-49 46	9.2	9.5	Ko	3	R	38416b
19	2562	20.6	+1 39	9.5	10.3	G5	1	..	11330b	69	4683	20.9	-57 17	7.9	9.7	K5	3	..	21695b
20	3247	20.6	-16 52	9.2	10.2	Ko	3	0,2	39947b	70	2298	20.9	-61 41	8.8	10.1	K2	2	..	38798b
21	3141	20.6	-23 3	9.2	10.0	Ko	4	..	39950b	71	1738	20.9	-67 59	9.3	9.4	A3	2	..	38923b
22	7189	20.6	-35 31	5.34	6.4	Ko	..	0,10	28,206	72	1249	20.9	-71 15	7.7	7.7	B9	5	..	40298b
23	6976	20.6	-45 45	8.4	8.6	Fo	5	..	41420b	73	2222	21.0	+34 0	6.29	6.71	F5	10	..	37572i
24	4547	20.6	-52 24	9.2	9.8	Go	1	..	38406b	74	2317	21.0	+20 56	8.2	9.4	K5	1	3,1	37770i
25	2917	20.6	-60 11	9.13	10.3	Ko	3	..	38798b	75	2504	21.0	+7 57	9.3	9.9	Go	3	..	13731b
26	356	20.7	+80 19	8.7	9.0	Fo	4	..	37465i	76	3377	21.0	-6 40	9.6	10.4	G5	1	..	41240b
27	2114	20.7	+43 17	7.9	8.9	Ko	3	..	37726i	77	3379	21.0	-6 58	9.3	10.4	K2	2	..	41240b
28	2405	20.7	+12 46	8.7	9.5	G5	1	..	38357i	78	3321	21.0	-14 24	9.1	9.6	F8	2	..	21155b
29	2463	20.7	+4 25	6.36	6.64	Fo	8	0,9	11330b	79	3377	21.0	-17 39	10.5	11.7	K5	1	..	39947b
30	2424	20.7	+2 26	8.7	9.8	K2	2	..	11330b	80	3265	21.0	-20 2	6.70	7.3	A5	9	..	41225b
31	3365	20.7	-13 59	7.36	8.54	K5	6	3,7	21155b	81	3307	21.0	-21 27	8.7	9.4	Ko	6	..	39950b
32	8545	20.7	-26 59	8.1	8.6	Fo	7	..	40312b	82	7173	21.0	-36 21	9.2	9.5	F8	2	..	41415b
33	7235	20.7	-37 12	6.02	7.2	Ma	7	..	41415b	83	7127	21.0	-38 19	9.2	9.2	F5	3	..	41415b
34	6715	20.7	-40 51	7.6	8.3	Fo	5	..	41420b	84	7126	21.0	-38 30	9.6	9.5	Ao	3	..	41415b
35	6972	20.7	-42 54	7.6	7.6	Fo	7	..	41420b	85	6984	21.0	-45 20	7.08	7.7	Ko	8	..	41420b
36	6978	20.7	-45 26	9.6	9.2	A2	3	..	41420b	86	7056	21.0	-46 56	8.8	8.7	G5	6	..	13033b
37	5686	20.7	-51 52	10.0	9.5	A3	1	..	38406b	87	6154	21.0	-49 52	10.2	9.3	Ao	3	..	38416b
38	4542	20.7	-54 8	10.3	10.3	Ao	1	..	38406b	88	4528	21.0	-54 50	9.0	9.4	Ao	3	..	21695b
39	4525	20.7	-54 30	9.6	9.9	Fo	2	..	38406b	89	4362	21.0	-55 49	8.8	9.4	Ao	5	..	21695b
40	4485	20.7	-56 51	9.5	9.5	B8	2	..	21695b	90	4490	21.0	-56 44	9.9	10.0	A5	1	R	21695b
41	2004	20.7	-62 24	8.7	9.8	K2	1	..	38798b	91	2923	21.0	-60 25	9.1	8.7	B8	3	..	38798b
42	847	20.7	-74 3	9.8	9.8	Ao	2	..	40298b	92	2285	21.1	+9 54	8.97	9.53	Go	2	..	13731b
43	699	20.8	+67 26	8.6	9.0	F5	5	..	37554i	93	2494	21.1	+9 13	6.82	7.82	Ko	7	..	13731b
44	2492	20.8	+9 11	8.6	9.6	Ko	3	..	13731b	94	3285	21.1	-6 12	10.2	10.5	F	1	..	41240b
45	2524	20.8	-1 35	8.9	10.0	K2	2	..	19394b	95	3267	21.1	-19 27	9.6	9.8	G5	3	..	39947b
46	3094	20.8	-11 59	9.6	10.0	F5	2	..	19140b	96	9959	21.1	-23 41	10.1	9.7	F2	4	..	39950b
47	3306	20.8	-21 35	10.2	10.6	K2	2	..	39950b	97	8858	21.1	-28 57	9.9	10.7	Ko	2	..	40312b
48	8660	20.8	-25 29	8.7	9.2	Ko	6	..	40312b	98	4554	21.1	-53 1	8.2	8.1	A2	6	..	38406b
49	6540	20.8	-42 8	8.2	8.6	Ko	4	..	41420b	99	4544	21.1	-53 43	8.9	9.5	B9	4	..	38406b
50	4550	20.8	-52 50	9.3	9.8	F8	1	..	38406b	100	3597	21.1	-59 4	10.0	10.0	Ao	1	..	21695b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

99400

11^h 21^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	454	21.1	-82 53	9.4	9.8	F5	2	..	45456b	51	8860	21.4	-28 10	10.1	11.0	F5	1	..	40312b
2	960	21.2	+63 39	8.2	9.0	G5	3	0,3	37716i	52	7135	21.4	-38 52	9.0	9.1	Fo	4	..	41415b
3	2241	21.2	+38 16	8.9	9.9	Ko	1	..	38401i	53	1893	21.4	-63 25	5.34	5.2	F5	..	5,3-	56,129
4	2353	21.2	+10 58	8.5	9.3	G5	2	E	38357i	54	1499	21.4	-68 52	9.2	9.2	B9	2	..	38923b
5	3283	21.2	-9 20	7.72	8.79	K2	4	..	21155b	55	1180	21.5	+62 40	8.7	8.8	A3	4	E	37718i
6	3172	21.2	-18 32	9.3	10.3	Ko	2	..	39947b	56	2442	21.5	+39 8	8.8	9.8	Ko	1	..	38656i
7	3419	21.2	-20 51	8.3	8.8	Fo	8	..	39950b	57	2359	21.5	+22 10	8.8	9.8	Ko	2	..	37505i
8	3308	21.2	-22 8	7.7	8.8	Ao	8	..	39950b	58	2565	21.5	+1 35	8.1	8.2	A2	6	..	11330b
9	7104	21.2	-39 42	7.8	8.6	Ko	5	..	41415b	59	3420	21.5	-20 48	6.79	7.7	Ao	5	..	5875b
10	7106	21.2	-39 47	8.7	9.8	K2	2	..	41415b	60	3309	21.5	-21 26	10.5	10.3	Go	1	..	39950b
11	7058	21.2	-43 15	9.2	9.9	G5	4	..	41420b	61	9743	21.5	-24 42	9.3	10.7	K2	2	..	39950b
12	7309	21.2	-44 21	8.4	9.1	Fo	4	..	41420b	62	8553	21.5	-27 2	8.4	9.2	F5	5	..	40312b
13	4531	21.2	-55 2	9.4	10.6	K5	1	..	38406b	63	7736	21.5	-33 37	8.7	8.8	F5	6	..	41232b
14	4366	21.2	-55 53	8.5	9.4	Ko	2	..	21695b	64	7447	21.5	-34 27	8.9	9.4	K5	2	..	41232b
15	4688	21.2	-57 35	8.4	8.8	B3	4	..	21695b	65	6991	21.5	-42 32	9.0	9.0	Go	3	..	41420b
16	3454	21.2	-59 38	8.9	8.9	B	6	R	21695b	66	4550	21.5	-53 56	10.0	10.0	Ao	2	..	38406b
17	1129	21.2	-72 19	8.1	9.1	Ko	3	..	40298b	67	3605	21.5	-58 48	7.6	7.4	Ao	3	..	43030b
18	726	21.2	-76 4	9.2	10.4	K5	1	..	39198b	68	3608	21.5	-59 6	10.3	10.3	Ao	1	..	21695b
19	2318	21.3	+21 2	7.66	8.44	G5	4	..	38229i	69	2931	21.5	-60 49	9.8	9.8	B8	3	..	38798b
20	2505	21.3	+8 39	9.3	9.6	Fo	3	..	13731b	70	2933	21.5	-61 6	8.6	8.4	B8	7	..	38798b
21	3071	21.3	-4 46	9.3	10.3	Ko	1	..	41240b	71	608	21.6	+68 59	8.4	8.5	A2	4	..	37554i
22	3284	21.3	-10 12	8.91	8.97	A2	3	..	21155b	72	1465	21.6	+55 30	8.3	9.4	K2	2	..	37717i
23	3379	21.3	-17 33	8.5	8.9	F5	4	..	41225b	73	2160	21.6	+28 59	7.50	7.78	Fo	5	0,8	37505i
24	3143	21.3	-23 0	10.9	10.3	A	2	..	39950b	74	2213	21.6	+26 7	8.8	9.6	G5	2	..	37505i
25	3142	21.3	-23 11	10.2	10.0	G5	4	..	39950b	75	2441	21.6	-1 12	10.0	10.3	F2	2	..	19394b
26	9964	21.3	-23 14	11.1	10.3	Ko	1	..	39950b	76	3252	21.6	-17 14	10.2	10.8	Go	2	..	39947b
27	8666	21.3	-25 43	8.97	9.8	G5	5	..	40312b	77	3174	21.6	-18 32	9.3	10.3	Ko	2	..	39947b
28	8992	21.3	-32 4	9.9	10.0	Ko	1	..	41232b	78	8090	21.6	-27 42	10.1	11.0	Ko	1	..	40312b
29	7197	21.3	-35 44	8.7	9.4	F8	2	..	41232b	79	7137	21.6	-38 53	9.6	10.5	A3	2	..	41415b
30	7133	21.3	-38 56	9.8	10.1	Fo	2	..	41415b	80	6992	21.6	-43 1	6.9	7.7	Fo	8	..	41420b
31	7132	21.3	-39 3	9.8	9.8	G5	1	..	41415b	81	6163	21.6	-49 34	8.2	8.6	Ko	4	..	13033b
32	6720	21.3	-40 33	9.5	9.5	Ao	2	..	41415b	82	5699	21.6	-51 40	10.0	9.3	Ao	3	..	38406b
33	6481	21.3	-48 28	8.5	9.5	K5	2	..	38416b	83	4552	21.6	-54 1	9.7	10.0	Fo	2	..	38406b
34	4533	21.3	-54 28	9.5	9.5	B9	4	..	38406b	84	4372	21.6	-55 9	10.2	10.2	Ao	1	..	38406b
35	3603	21.3	-59 2	9.0	9.6	Go	3	..	21695b	85	4371	21.6	-55 26	9.2	10.0	G5	2	..	38406b
36	2007	21.3	-62 34	8.4	8.4	Ao	6	..	38798b	86	4696	21.6	-57 50	9.1	10.0	G5	2	..	21695b
37	1892	21.3	-63 15	7.9	8.2	F2	7	..	38798b	87	2934	21.6	-60 28	9.5	9.5	Ao	2	..	38798b
38	1661	21.3	-64 57	8.6	9.8	K5	2	..	38798b	88	2305	21.6	-61 54	8.7	8.6	B8	6	..	38798b
39	1664	21.3	-65 59	9.0	9.6	Go	2	..	38798b	89	1519	21.7	+55 47	8.1	8.9	G5	5	..	37717i
40	1740	21.3	-67 29	9.0	9.0	Ao	2	..	38923b	90	2495	21.7	+9 34	8.7	9.9	K5	1	..	13731b
41	1130	21.3	-73 5	6.7	7.0	F2	8	..	40298b	91	2502	21.7	+3 33	6.19	7.19	Ko	..	5,7	56,88
42	727	21.3	-75 24	9.3	10.4	K2	1	..	39198b	92	2503	21.7	+3 32	7.9	8.9	Ko	3	..	11330b
43	2022	21.4	+26 56	8.2	9.2	Ko	3	..	37505i	93	3287	21.7	-9 51	8.9	9.0	A2	6	..	21155b
44	2358	21.4	+22 23	8.9	9.3	F5	2	..	37505i	94	3144	21.7	-22 43	10.7	10.3	A3	3	..	39950b
45	2336	21.4	+12 8	8.6	9.6	Ko	2	..	38357i	95	7180	21.7	-36 20	7.8	9.1	Ma	4	..	41415b
46	3380	21.4	-17 52	9.1	9.1	Ao	2	..	41225b	96	7138	21.7	-38 22	10.0	10.9	K	1	..	41415b
47	9741	21.4	-24 19	10.8	11.8	K2	1	..	39950b	97	6008	21.7	-51 5	9.2	9.3	Ko	2	..	38406b
48	8667	21.4	-25 12	8.70	9.5	Mb	5	..	40312b	98	4499	21.7	-56 24	10.0	10.3	F	2	..	21695b
49	8668	21.4	-25 23	10.4	10.1	F5	3	..	40312b	99	4698	21.7	-57 22	8.4	8.5	A3	7	..	21695b
50	8088	21.4	-27 18	10.4	10.4	Fo	2	..	40312b	100	3462	21.7	-59 22	9.3	9.3	B9	2	..	21695b

THE HENRY DRAPER CATALOGUE.

99500

11^h 21^m 7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	728	21.7	-75 20	9.5	9.9	F5	2	..	39198b	51	3385	22.1	-17 43	9.1	10.1	Ko	3	..	41225b
2	729	21.7	-75 54	9.4	9.5	A2	5	..	39198b	52	3310	22.1	-21 41	8.3	9.5	Ko	6	..	39950b
3	2186	21.8	+36 19	8.8	9.6	G5	2	..	38401i	53	9106	22.1	-29 22	8.7	9.1	F2	5	..	40312b
4	2116	21.8	+33 41	7.9	8.9	Ko	6	..	37572i	54	4540	22.1	-54 58	9.20	10.3	K2	1	..	38406b
5	2362	21.8	+22 25	7.60	8.38	G5	5	..	38229i	55	3622	22.1	-59 6	8.9	8.9	B5	5	..	21695b
6	3380	21.8	-7 15	8.3	8.3	Ao	6	..	41240b	56	2941	22.1	-60 34	5.54	5.42	B5	..	0.5	56,129
7	3288	21.8	-9 23	7.9	8.3	F5	5	..	21155b	57	852	22.1	-73 16	9.2	9.2	Ao	4	..	40298b
8	7243	21.8	-37 36	8.2	8.1	B9	6	..	41415b	58	730	22.1	-75 57	8.9	10.1	K5	2	..	39198b
9	5703	21.8	-51 50	9.8	9.8	Ko	1	..	38406b	59	1873	22.2	+46 51	7.83	8.33	F8	6	..	37726i
10	4538	21.8	-54 55	8.8	9.1	A2	4	..	21695b	60	2091	22.2	+44 43	9.22	9.72	F8	2	..	37726i
11	4375	21.8	-55 58	9.6	9.9	F2	2	..	21695b	61	2431	22.2	+1 55	7.7	8.5	G5	5	..	11330b
12	4374	21.8	-56 4	9.0	9.4	Ao	4	..	21695b	62	3290	22.2	-6 5	9.3	10.5	K5	1	..	41240b
13	3613	21.8	-58 44	8.0	9.2	Ko	5	..	21695b	63	3173	22.2	-8 19	8.17	8.45	Fo	7	..	41240b
14	851	21.8	-73 26	9.0	9.3	Fo	4	..	40298b	64	3098	22.2	-11 48	5.96	6.46	F8	6	R	2471b
15	667	21.8	-77 9	9.3	9.4	A5	2	..	21530b	65	3326	22.2	-15 6	7.71	8.71	Ko	6	..	41225b
16	661	21.9	+70 21	8.6	8.9	Fo	2	..	37554i	66	3254	22.2	-16 57	10.0	10.8	G5	2	..	39947b
17	847	21.9	+64 44	8.00	8.78	G5	4	E	37718i	67	3269	22.2	-19 32	10.7	10.3	F5	1	..	39947b
18	2376	21.9	+25 35	7.60	7.88	Fo	7	..	37505i	68	3270	22.2	-20 15	8.53	9.8	K5	2	..	41225b
19	9972	21.9	-23 26	10.8	10.6	Ko	1	..	39950b	69	3421	22.2	-21 11	10.0	10.3	G5	2	..	39950b
20	9749	21.9	-24 53	10.4	11.3	Ko	2	..	39950b	70	8868	22.2	-29 1	9.6	10.7	F8	2	..	40312b
21	9748	21.9	-24 58	10.6	11.6	K	1	..	39950b	71	6998	22.2	-42 34	10.5	10.6	Ao	2	..	41420b
22	8862	21.9	-28 16	9.6	11.0	K5	1	..	40312b	72	7073	22.2	-43 48	8.9	10.5	K2	2	..	41420b
23	6996	21.9	-42 34	9.1	9.4	Ao	4	..	41420b	73	6013	22.2	-50 10	9.0	8.9	Ao	6	R	13033b
24	6995	21.9	-42 42	8.9	10.3	K2	1	..	41420b	74	4567	22.2	-52 36	5.91	7.2	Go	..	R	56,129
25	7075	21.9	-46 19	9.1	10.0	G5	2	..	13033b	75	4567	22.2	-52 36	5.91	7.2	A2	..	..	..
26	4376	21.9	-55 43	9.4	9.4	Ao	2	..	21695b	76	2322	22.2	-61 10	9.0	10.1	Ko	1	..	38798b
27	3467	21.9	-59 53	9.1	8.6	Ao	4	..	21695b	77	2321	22.2	-61 33	9.6	9.6	B8	3	..	38798b
28	2311	21.9	-61 22	10.1	10.1	Ao	1	..	38798b	78	2116	22.3	+43 39	9.7	10.7	Ko	1	..	37726i
29	2312	21.9	-61 25	10.3	10.3	B9	1	..	38798b	79	2247	22.3	+38 29	7.20	7.70	F8	5	..	38401i
30	108	21.9	-88 53	8.6	9.7	K2	3	2,2	22578b	80	2255	22.3	+34 48	8.67	9.67	Ko	4	..	37572i
31	1380	22.0	+59 15	8.6	9.4	G5	3	..	37716i	81	2214	22.3	+26 3	8.9	9.4	F8	2	..	37505i
32	1323	22.0	+57 7	8.0	8.5	F8	4	..	37717i	82	2360	22.3	+24 35	9.26	10.26	Ko	2	..	37505i
33	2224	22.0	+34 29	9.6	10.2	G	3	..	37572i	83	3422	22.3	-20 31	9.3	10.6	K5	2	..	39947b
34	3178	22.0	-18 39	7.37	8.44	K2	5	..	41225b	84	9979	22.3	-23 16	9.6	9.7	Ko	4	..	39950b
35	3177	22.0	-18 54	9.3	9.9	Go	3	..	39947b	85	9978	22.3	-23 37	7.46	8.8	K5	6	..	39950b
36	3268	22.0	-19 38	10.9	10.8	Ko	1	..	39947b	86	4378	22.3	-55 44	6.7	8.0	K2	3	..	43030b
37	8560	22.0	-26 18	10.6	11.0	G5	1	..	40312b	87	4509	22.3	-56 29	8.3	9.4	G5	5	..	21695b
38	8095	22.0	-27 54	10.8	11.0	K2	1	..	40312b	88	2944	22.3	-61 1	8.9	10.4	Ko	1	..	38798b
39	7245	22.0	-37 44	9.6	9.1	F5	3	..	41415b	89	1588	22.3	-66 32	8.2	9.0	G5	4	..	38798b
40	7072	22.0	-43 31	9.6	10.8	K2	1	..	41420b	90	810	22.3	-74 36	9.5	10.6	K2	1	..	39198b
41	7076	22.0	-46 34	9.1	9.3	Ao	4	..	13033b	91	731	22.3	-75 10	9.34	9.6	G5	3	..	39198b
42	6011	22.0	-50 36	8.8	9.3	K2	2	..	38406b	92	1924	22.4	+45 44	var.	var.	Mb	6	R	37726i
43	4506	22.0	-56 37	9.7	10.0	F2	2	..	21695b	93	2159	22.4	+30 23	9.2	9.6	F5	3	E	37572i
44	3615	22.0	-58 19	9.1	9.3	Ao	2	..	21695b	94	2024	22.4	+26 59	8.1	9.2	K2	3	..	37505i
45	3617	22.0	-58 52	9.4	9.5	A2	1	..	21695b	95	2432	22.4	+1 51	7.7	8.7	Ko	5	..	11330b
46	3620	22.0	-58 53	8.5	8.3	Bo	7	..	21695b	96	2566	22.4	+1 30	7.6	8.6	Ko	7	..	11330b
47	2315	22.0	-61 28	10.3	10.1	B	1	..	38798b	97	3099	22.4	-11 55	9.3	10.1	G5	2	..	21155b
48	2357	22.1	+23 53	9.2	10.2	Ko	1	..	37505i	98	3386	22.4	-17 58	7.53	8.53	Ko	5	..	41225b
49	2497	22.1	+8 46	9.3	10.1	G5	3	..	13731b	99	3271	22.4	-20 3	9.6	10.3	K2	1	..	41225b
50	3384	22.1	-17 37	9.6	10.6	Ko	1	..	41225b	100	9980	22.4	-24 5	10.4	10.8	Ko	1	..	39950b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

99600

11^h 22^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7188	22.4	-36 58	8.6	8.5	Ao	5	..	41415b	51	2442	22.8	-1 9	6.28	7.28	Ko	10	..	19394b
2	6844	22.4	-47 12	7.8	8.4	Ko	5	..	13033b	52	3388	22.8	-17 36	8.3	9.3	Ko	4	..	41225b
3	6020	22.4	-50 46	9.8	9.3	A5	2	..	38416b	53	9111	22.8	-29 49	10.1	10.5	F2	2	..	40312b
4	4543	22.4	-54 18	8.8	10.0	Ko	3	R	38406b	54	7211	22.8	-35 29	9.6	9.7	G5	2	..	41415b
5	2018	22.4	-62 16	8.3	8.3	Ao	7	..	38798b	55	6555	22.8	-41 11	9.6	10.3	G5	1	..	41420b
6	1926	22.5	+45 26	6.86	7.86	Ko	8	..	37726i	56	6183	22.8	-49 29	9.8	10.0	Ko	2	..	38416b
7	1927	22.5	+45 7	6.86	7.14	Fo	9	..	37726i	57	6182	22.8	-50 0	9.6	9.8	K2	1	..	38416b
8	2187	22.5	+35 55	8.4	9.5	K2	1	..	38401i	58	3474	22.8	-59 22	8.4	8.9	B8	4	..	21695b
9	3268	22.5	-11 5	9.8	10.8	Ko	1	..	21155b	59	435	22.9	+76 56	9.7	10.8	K2	1	..	38333i
10	3100	22.5	-11 53	7.7	8.5	G5	7	..	21155b	60	2095	22.9	+44 25	8.17	8.45	Fo	5	..	37726i
11	9981	22.5	-23 32	7.8	8.5	Ko	7	..	39950b	61	2117	22.9	+33 29	9.7	10.7	Ko	3	..	37572i
12	9753	22.5	-24 16	11.6	11.5	A	1	R	39950b	62	2353	22.9	+23 44	8.4	8.8	F5	4	..	37505i
13	8875	22.5	-28 24	8.3	9.2	A2	7	..	40312b	63	2358	22.9	+11 15	8.5	9.3	G5	1	..	38357i
14	7743	22.5	-33 8	8.2	8.9	Fo	4	..	41232b	64	2357	22.9	+11 13	8.3	9.3	Ko	2	..	38357i
15	4546	22.5	-54 40	9.7	10.0	F2	3	..	38406b	65	2443	22.9	-0 22	7.08	7.08	Ao	9	..	11330b
16	4379	22.5	-56 3	9.0	9.4	Ko	4	..	21695b	66	2527	22.9	-1 23	9.5	9.8	F2	3	..	19394b
17	3472	22.5	-59 21	8.4	9.6	Ao	2	..	21695b	67	3270	22.9	-10 28	9.3	9.9	Go	3	..	21155b
18	2947	22.5	-60 21	10.2	10.3	A2	2	..	38798b	68	3271	22.9	-10 31	9.1	9.5	F5	4	..	21155b
19	2948	22.5	-60 49	6.7	9.2	K2	7	..	38798b	69	3270	22.9	-15 19	8.86	9.42	Go	3	..	41225b
20	1521	22.6	+56 13	8.0	8.0	Ao	6	..	37717i	70	3181	22.9	-18 31	9.6	10.7	K2	2	..	39947b
21	2288	22.6	+10 1	8.6	9.6	Ko	3	..	13731b	71	3180	22.9	-18 43	9.6	10.8	K5	2	..	39947b
22	2508	22.6	+8 27	8.9	9.9	Ko	3	..	13731b	72	8568	22.9	-26 38	11.3	10.7	Fo	1	..	40312b
23	3432	22.6	-12 33	8.3	9.7	Ma	3	..	21155b	73	9112	22.9	-29 57	8.7	8.5	A2	3	..	41232b
24	3145	22.6	-23 10	10.6	10.0	G5	2	..	39950b	74	9016	22.9	-31 21	10.1	9.5	A2	2	..	41232b
25	8682	22.6	-25 18	6.82	7.9	Ko	9	..	40312b	75	9015	22.9	-32 6	9.4	9.5	F5	2	..	41232b
26	7257	22.6	-37 15	9.8	9.4	Ao	2	..	41415b	76	7213	22.9	-35 31	8.9	9.4	G5	3	..	41232b
27	7118	22.6	-39 19	7.28	7.4	Ao	8	..	41415b	77	7151	22.9	-38 18	9.0	9.1	B9	4	..	41415b
28	6738	22.6	-40 58	9.6	10.0	B9	2	..	41420b	78	7005	22.9	-42 16	10.0	10.5	A2	2	..	41420b
29	3631	22.6	-58 42	9.2	9.2	Ao	4	..	21695b	79	7327	22.9	-44 48	8.9	10.0	G5	2	..	41420b
30	3473	22.6	-60 4	9.08	9.0	B8	4	..	38798b	80	6507	22.9	-49 0	7.8	8.7	Ko	3	..	13033b
31	1743	22.6	-68 3	9.0	9.1	A5	3	..	38923b	81	4577	22.9	-53 1	9.0	10.0	Ko	1	..	38406b
32	1944	22.7	+48 0	8.2	8.2	Ao	5	..	37726i	82	4384	22.9	-55 21	9.0	9.4	F5	4	..	21695b
33	2094	22.7	+44 15	9.0	10.0	Ko	2	..	37726i	83	3479	22.9	-59 59	9.23	9.5	F5	2	..	38798b
34	2192	22.7	+41 21	9.7	10.7	Ko	1	..	38656i	84	854	22.9	-73 16	9.6	9.6	Ao	2	..	40298b
35	2334	22.7	+15 42	10.0	11.4	Mc	..	..	M	85	34	22.9	-89 15	7.6	7.6	Ao	5	0,7-	22566b
36	2356	22.7	+11 34	8.3	9.1	G5	1	..	38357i	86	332	23.0	+82 39	8.6	9.2	Go	3	..	37465i
37	3425	22.7	-20 37	9.3	10.3	Ko	3	..	39947b	87	371	23.0	+81 35	8.13	8.63	F8	4	..	37465i
38	3148	22.7	-22 59	8.8	8.8	F2	7	..	39950b	88	2607	23.0	+20 38	8.00	8.56	Go	4	..	38229i
39	9014	22.7	-31 36	8.1	7.9	F5	7	..	41232b	89	2528	23.0	-1 54	8.3	9.3	Ko	5	..	19394b
40	7009	22.7	-45 14	9.4	10.8	Ko	2	R	41420b	90	3272	23.0	-19 29	9.2	10.3	Mb	1	..	39947b
41	6023	22.7	-50 33	9.1	9.0	Go	2	..	13033b	91	3315	23.0	-22 12	9.1	9.8	Ko	5	..	39950b
42	4559	22.7	-53 45	9.8	10.2	F5	2	..	38406b	92	3150	23.0	-22 44	9.1	9.1	F2	6	..	39950b
43	3633	22.7	-58 27	8.6	9.6	Ko	3	..	21695b	93	8107	23.0	-27 49	11.6	10.6	A5	1	..	40312b
44	1506	22.7	-68 30	7.8	7.9	A2	6	..	38923b	94	8106	23.0	-27 56	9.1	9.6	G5	5	..	40312b
45	1244	22.8	+61 6	9.1	9.5	F5	2	..	37716i	95	7469	23.0	-35 0	7.77	8.5	Ko	4	..	41232b
46	2411	22.8	+13 45	8.7	9.5	G5	2	..	38357i	96	7195	23.0	-36 45	8.6	9.5	K2	3	..	41415b
47	2338	22.8	+12 32	6.66	7.73	K2	5	..	38357i	97	7122	23.0	-39 12	8.9	10.5	K5	1	..	41415b
48	2504	22.8	+3 24	5.18	6.18	Ko	..	5,8R	56,88	98	7013	23.0	-46 0	9.2	10.7	Ko	1	..	13033b
49	2505	22.8	+3 22	8.1	8.9	G5	4	..	11330b	99	6852	23.0	-47 22	9.8	10.5	F8	2	..	38416b
50	2435	22.8	+2 2	8.6	9.1	F8	4	..	11330b	100	6511	23.0	-48 45	10.2	9.5	Ao	2	..	38416b

THE HENRY DRAPER CATALOGUE.

99700

11^h 23^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4579	23.0	-52 44	9.5	9.5	Ao	2	..	38406b	51	2415	23.4	+13 27	8.7	9.7	Ko	1	..	38357i
2	2333	23.0	-61 12	9.5	9.5	Ao	3	..	38798b	52	2497	23.4	+ 5 33	10.3	11.1	G5	2	..	13731b
3	2024	23.0	-63 4	8.2	8.5	Fo	4	..	38798b	53	3391	23.4	-17 50	8.9	10.0	K2	2	..	41225b
4	1663	23.0	-64 34	9.3	9.3	Ao	3	..	38798b	54	9993	23.4	-23 16	7.51	8.3	K2	8	..	39950b
5	2057	23.1	+49 30	9.0	9.5	F8	2	..	38648i	55	9760	23.4	-24 20	9.3	9.8	Ko	4	..	39950b
6	2096	23.1	+44 29	7.62	8.62	Ko	5	..	37726i	56	8575	23.4	-27 6	10.4	10.7	Ko	2	..	40312b
7	2118	23.1	+43 22	8.9	9.5	Go	2	..	37726i	57	6032	23.4	-50 18	8.34	8.1	B9	7	..	13033b
8	3387	23.1	- 6 45	8.6	9.6	Ko	4	..	41240b	58	3488	23.4	-59 54	9.2	9.2	Ao	2	..	38798b
9	3182	23.1	-18 19	8.9	10.1	K5	1	..	41225b	59	732	23.4	-75 23	8.9	8.9	Ao	7	..	39198b
10	8684	23.1	-25 43	9.6	10.1	Ko	4	..	40312b	60	701	23.5	+67 29	7.49	7.83	F2	6	..	37554i
11	8108	23.1	-27 50	8.7	9.2	A2	7	..	40312b	61	2119	23.5	+43 22	7.34	8.34	Ko	5	..	37726i
12	7471	23.1	-34 46	6.49	7.8	K2	7	..	41232b	62	2437	23.5	+ 2 26	8.7	9.7	Ko	2	..	11330b
13	7090	23.1	-46 25	9.0	9.9	Ko	2	..	13033b	63	3294	23.5	- 5 33	9.2	9.5	F2	2	..	41240b
14	5725	23.1	-51 56	8.9	9.3	G5	3	..	38406b	64	3388	23.5	- 6 19	9.6	10.4	G5	2	..	41240b
15	4580	23.1	-52 17	9.1	9.5	F5	2	..	38406b	65	8881	23.5	-28 11	9.9	10.7	G5	2	..	40312b
16	3483	23.1	-59 12	9.1	9.2	B9	3	..	21695b	66	7016	23.5	-42 54	8.0	9.4	Ko	4	..	41420b
17	2956	23.1	-61 1	9.1	10.3	B8	5	..	38798b	67	7086	23.5	-43 32	8.8	8.8	Ao	5	..	41420b
18	2955	23.1	-61 6	8.9	9.6	B9	3	..	38798b	68	4518	23.5	-56 57	8.2	9.4	Ko	5	..	21695b
19	848	23.2	+64 7	7.62	8.04	F5	5	0.5	37716i	69	2965	23.5	-60 51	8.9	8.9	B8	7	..	38798b
20	2432	23.2	+39 51	7.82	8.82	Ko	3	..	38656i	70	2341	23.5	-61 23	8.6	9.2	Ao	3	..	38798b
21	2449	23.2	+ 7 35	9.7	9.8	A3	2	..	13731b	71	2026	23.5	-62 15	8.6	8.6	B8	4	..	38798b
22	3272	23.2	-15 20	7.16	7.16	Ao	9	..	41225b	72	1664	23.5	-65 7	9.7	9.8	A2	1	..	38798b
23	3257	23.2	-17 11	9.8	10.8	Ko	2	..	39947b	73	1668	23.6	+50 49	9.0	9.8	G5	2	..	38648b
24	3389	23.2	-18 6	8.5	9.5	Ko	1	..	41225b	74	1725	23.6	+46 15	9.1	9.7	G	2	..	37726i
25	9756	23.2	-24 44	10.6	11.0	Ko	2	..	39950b	75	2196	23.6	+41 44	7.69	8.47	G5	4	..	37726i
26	8571	23.2	-26 32	10.4	10.7	Ko	1	..	40312b	76	3353	23.6	- 2 49	9.1	9.2	A2	4	..	19394b
27	9227	23.2	-30 41	8.4	8.8	A2	5	..	41232b	77	3296	23.6	- 5 38	8.8	10.0	K5	2	..	41240b
28	8114	23.2	-32 56	8.9	10.0	G5	1	..	41232b	78	3392	23.6	-18 0	10.7	11.2	F8	2	..	39947b
29	7472	23.2	-34 38	9.6	9.1	F5	3	..	41232b	79	8691	23.6	-25 19	11.8	10.7	F5	2	..	39950b
30	7196	23.2	-36 28	9.6	9.7	Ko	1	..	41415b	80	8692	23.6	-25 25	11.1	11.3	Ko	1	..	39950b
31	4564	23.2	-53 21	8.9	9.7	A3	4	..	38406b	81	9023	23.6	-31 18	7.8	7.7	A2	8	..	41232b
32	4388	23.2	-55 15	9.76	9.5	Ao	4	..	38406b	82	6192	23.6	-49 58	9.8	9.6	Go	2	..	38416b
33	4516	23.2	-56 34	10.0	10.0	Ao	2	..	21695b	83	5731	23.6	-51 30	7.5	8.6	Ko	6	..	38406b
34	4716	23.2	-58 8	7.3	7.6	B9	2	..	43030b	84	1896	23.6	-63 38	9.3	9.3	Ao	3	..	38798b
35	3486	23.2	-59 41	8.9	8.9	F5	5	..	21695b	85	1668	23.6	-65 38	7.4	7.4	B9	9	..	38798b
36	3485	23.2	-59 56	6.83	8.3	K2	6	..	38798b	86	855	23.6	-73 40	9.0	9.0	B9	4	..	40298b
37	644	23.3	+67 59	7.27	8.27	Ko	5	..	37554i	87	2433	23.7	+39 54	5.26	5.32	A2	..	..	56,88
38	2502	23.3	+ 9 5	8.5	9.6	K2	3	..	13731b	88	2608	23.7	+20 29	9.2	10.2	K	1	..	38229i
39	2506	23.3	+ 3 20	8.1	8.6	F8	6	..	11330b	89	2569	23.7	+ 1 45	7.9	8.9	Ko	3	..	11330b
40	3273	23.3	-16 4	9.3	9.7	F5	2	..	41225b	90	3105	23.7	-11 46	8.9	10.0	K2	2	..	21155b
41	8687	23.3	-25 12	9.43	11.0	Ma	2	..	40312b	91	8694	23.7	-25 49	8.1	9.2	K2	6	..	40312b
42	8573	23.3	-26 19	11.1	11.0	K5	1	..	40312b	92	7158	23.7	-38 16	8.4	8.8	Ao	5	..	41415b
43	7197	23.3	-36 32	7.51	7.7	B9	8	..	41415b	93	7021	23.7	-43 7	10.5	10.5	A	1	..	41420b
44	7094	23.3	-46 48	8.8	8.4	A2	7	..	13033b	94	7024	23.7	-45 13	8.08	8.4	Go	6	..	41420b
45	6188	23.3	-49 25	10.0	9.8	K2	1	..	38416b	95	1251	23.7	-71 31	8.6	8.6	Ao	3	..	40298b
46	4587	23.3	-52 34	8.9	8.6	B9	5	..	38406b	96	2218	23.8	+25 56	8.4	8.7	Fo	3	..	37505i
47	1183	23.4	+62 19	5.86	6.14	Fo	8	..	38285i	97	2291	23.8	+10 35	8.3	8.7	F5	9	..	13731b
48	2059	23.4	+48 47	8.0	8.8	G5	4	..	37726i	98	2508	23.8	+ 3 17	8.9	9.9	Ko	2	..	11330b
49	1724	23.4	+46 6	8.7	9.7	Ko	2	..	37726i	99	3316	23.8	-21 51	7.84	9.1	Ko	7	..	39950b
50	1929	23.4	+45 42	8.7	9.3	Go	2	..	37726i	100	8695	23.8	-25 18	9.40	10.1	Ko	4	..	40312b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

99800

11^h 23^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8113	23.8	-27 12	8.5	9.5	K2	4	..	40312b	51	7480	24.1	-35 7	9.18	9.5	Ao	3	..	41232b
2	8888	23.8	-28 45	9.9	10.4	Go	2	..	40312b	52	7278	24.1	-38 4	9.2	9.4	F2	3	..	41415b
3	6565	23.8	-42 7	5.34	5.32	B9	..	..	56,129	53	6571	24.1	-41 43	8.7	10.8	K5	1	..	41420b
4	7343	23.8	-44 35	7.4	8.4	Go	7	..	41420b	54	7023	24.1	-42 55	7.10	8.1	Ko	7	..	41420b
5	2342	23.8	-61 30	8.5	9.2	Fo	3	..	38798b	55	2978	24.1	-60 31	9.1	9.3	Ao	3	..	38798b
6	675	23.8	-77 58	7.6	8.6	Ko	5	..	21530b	56	1665	24.1	-64 20	8.9	8.7	B3	4	..	38798b
7	1466	23.9	+55 22	8.2	9.0	G5	3	..	37717i	57	1669	24.1	-65 56	7.8	7.6	Bo	..	3,9	56,129
8	1877	23.9	+47 40	9.1	9.5	F5	2	..	37726i	58	645	24.2	+68 41	8.4	8.5	A2	4	..	37554i
9	1726	23.9	+46 35	9.1	9.9	G5	3	..	37726i	59	1324	24.2	+57 17	6.13	6.19	A2	8	..	37717i
10	2182	23.9	+37 27	8.4	9.2	G5	3	..	38656i	60	2101	24.2	+44 11	9.1	10.1	K	2	..	37726i
11	2265	23.9	+16 29	8.9	9.7	G5	1	..	38229i	61	2030	24.2	+27 7	9.2	10.2	Ko	1	..	37505i
12	3275	23.9	-10 30	9.1	10.1	Ko	3	..	21155b	62	2219	24.2	+26 26	8.7	9.1	F5	2	..	37505i
13	3107	23.9	-11 31	10.5	11.9	Ma	1	..	21155b	63	2417	24.2	+13 32	9.3	10.3	Ko	1	..	38357i
14	3275	23.9	-16 3	7.53	8.88	Ma	4	..	41225b	64	2793	24.2	+ 0 13	7.9	9.1	K5	3	..	11330b
15	8696	23.9	-25 46	9.1	9.6	K5	5	..	40312b	65	3128	24.2	- 3 54	7.9	8.4	F8	8	..	19394b
16	8890	23.9	-28 55	10.1	11.3	G5	1	..	40312b	66	10004	24.2	-24 2	9.6	10.0	G5	3	..	39950b
17	9127	23.9	-29 54	9.9	10.3	Fo	3	..	40312b	67	7280	24.2	-37 22	9.3	10.0	Go	1	..	41415b
18	9028	23.9	-32 3	9.7	10.6	K5	1	..	40312b	68	7279	24.2	-37 44	9.6	10.0	Go	2	..	41415b
19	7127	23.9	-39 15	7.8	8.2	G5	5	..	41415b	69	4559	24.2	-54 20	9.1	9.4	A2	3	..	38406b
20	4596	23.9	-52 37	9.0	9.8	G5	2	..	38406b	70	4558	24.2	-54 38	10.1	10.2	A3	1	..	38406b
21	4570	23.9	-53 47	8.2	9.4	Ko	4	..	38406b	71	1381	24.2	-70 34	7.4	7.7	F2	7	..	38923b
22	4392	23.9	-55 20	8.9	9.5	Go	4	..	38406b	72	1253	24.2	-71 55	6.31	6.8	B3	..	2,5	56,129
23	4730	23.9	-57 35	7.2	7.6	Ao	3	..	43030b	73	2444	24.3	- 0 18	7.43	8.50	K2	5	..	11330b
24	3496	23.9	-60 3	9.13	8.6	Ao	4	..	38798b	74	3357	24.3	- 3 10	9.1	9.7	Go	2	..	19394b
25	2975	23.9	-60 27	9.7	9.8	A3	3	..	38798b	75	3377	24.3	-13 15	9.1	9.4	F2	3	..	21155b
26	2974	23.9	-61 2	9.6	9.6	B9	3	..	38798b	76	3332	24.3	-14 34	9.3	10.4	K2	1	..	21155b
27	335	23.9	-84 24	7.77	8.2	F5	6	3,6	45456b	77	3258	24.3	-16 48	9.1	9.7	Go	5	..	39947b
28	109	23.9	-88 41	7.64	7.4	Fo	5	0,7-	22566b	78	3259	24.3	-16 49	9.1	9.7	Go	5	..	39947b
29	1930	24.0	+44 53	9.22	9.78	G	2	..	37726i	79	3151	24.3	-22 29	9.8	10.1	Go	3	..	39950b
30	2099	24.0	+43 59	9.5	10.5	K	2	..	37726i	80	8893	24.3	-28 48	9.6	11.0	Ko	1	..	40312b
31	2209	24.0	+42 38	8.7	8.7	A	3	..	37726i	81	8125	24.3	-32 52	9.5	9.7	Go	2	..	41232b
32	2270	24.0	+30 58	7.10	7.44	F2	7	0,8	38401i	82	3506	24.3	-60 7	9.18	10.0	K2	2	..	38798b
33	2362	24.0	+16 56	8.4	9.2	G5	3	..	38229i	83	2032	24.3	-63 1	8.1	8.1	Ao	5	..	38798b
34	2452	24.0	+ 7 21	9.0	10.1	K2	2	..	13731b	84	183	24.4	+85 15	7.35	8.35	Ko	7	0,7	37813i
35	2454	24.0	+ 6 39	9.7	10.5	G5	2	..	13731b	85	2190	24.4	+36 32	9.2	10.0	G5	1	..	38401i
36	3184	24.0	-19 15	9.1	9.5	Go	2	..	41225b	86	2573	24.4	+ 0 46	9.49	9.77	Fo	1	..	11330b
37	9769	24.0	-24 12	8.3	8.6	Ao	7	..	39950b	87	8702	24.4	-25 49	9.1	9.2	F5	7	..	40312b
38	8698	24.0	-26 5	9.3	10.1	K2	4	..	40312b	88	8894	24.4	-28 36	9.1	9.8	F5	4	..	40312b
39	9242	24.0	-31 7	9.7	9.7	G5	2	..	40312b	89	6212	24.4	-49 15	10.5	9.6	A3	2	..	38416b
40	5739	24.0	-51 9	9.0	8.9	F5	3	..	38406b	90	4399	24.4	-56 5	8.4	8.3	B2	5	..	21695b
41	5740	24.0	-52 8	8.8	10.0	Ao	4	..	38406b	91	4529	24.4	-56 17	9.0	10.0	Ko	2	..	21695b
42	..	24.0	-52 23	..	..	P	..	R	76,22	92	4526	24.4	-57 2	9.7	9.7	Ao	3	..	21695b
43	4599	24.0	-52 50	9.2	9.3	A2	3	..	38406b	93	3661	24.4	-58 14	7.4	7.4	Ao	2	..	43030b
44	4575	24.0	-53 37	8.5	9.4	Ko	5	..	38406b	94	3513	24.4	-59 55	9.8	9.8	Ao	2	..	38798b
45	4557	24.0	-54 20	6.90	7.5	A3	3	..	43030b	95	2983	24.4	-60 20	9.0	9.0	Ao	3	..	38798b
46	1590	24.0	-67 3	9.2	9.3	A2	1	..	38923b	96	2982	24.4	-60 58	8.7	9.8	B9	2	..	38798b
47	2571	24.1	+ 1 16	9.3	9.4	A5	1	..	11330b	97	2350	24.4	-62 6	8.8	8.6	B5	5	..	38798b
48	3299	24.1	- 6 9	9.6	10.7	K2	1	..	41240b	98	2033	24.4	-62 22	9.3	9.3	B8	2	..	38798b
49	3240	24.1	- 7 28	8.9	9.5	Go	3	..	41240b	99	1946	24.5	+47 50	9.1	9.9	G5	1	..	37726i
50	9244	24.1	-30 26	9.6	9.7	A5	3	..	40312b	100	1879	24.5	+46 48	8.8	8.9	A5	4	..	37726i

THE HENRY DRAPER CATALOGUE.

99900

11^h 24^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2031	24.5	+27 8	9.0	9.6	G	2	..	37505i	51	10010	24.8	-23 56	9.7	9.1	F2	6	..	39950b
2	2266	24.5	+15 59	6.00	7.00	Ko	7	..	38229i	52	7284	24.8	-37 54	6.80	7.5	Go	8	..	41415b
3	2419	24.5	+13 3	8.7	9.7	Ko	2	..	38357i	53	2030	24.8	-63 0	6.56	6.6	Bo	..	..	56,129
4	2512	24.5	+ 8 9	6.72	7.14	F5	10	..	13731b	54	1949	24.9	+47 48	8.4	9.2	G5	6	..	37726i
5	2480	24.5	+ 4 19	7.9	8.9	Ko	7	..	13731b	55	1730	24.9	+46 10	9.1	9.9	G5	1	..	37726i
6	8895	24.5	-28 54	8.5	9.2	Fo	6	..	40312b	56	2250	24.9	+38 29	7.28	8.28	Ko	4	..	38401i
7	8126	24.5	-32 38	9.0	8.8	F5	5	..	41232b	57	2222	24.9	+25 52	7.68	8.75	K2	4	..	37505i
8	6756	24.5	-40 25	8.9	9.4	F5	3	..	41420b	58	9043	24.9	-31 29	10.6	9.7	Fo	2	..	40312b
9	4601	24.5	-52 48	9.0	9.6	K2	1	..	38406b	59	4604	24.9	-53 4	8.0	8.0	Ao	7	..	38406b
10	4563	24.5	-54 22	9.0	9.4	F5	3	..	38406b	60	4568	24.9	-54 9	9.6	9.9	F2	2	..	38406b
11	3515	24.5	-60 2	10.3	10.3	Ao	1	..	38798b	61	2988	24.9	-60 28	10.0	10.0	Ao	2	..	38798b
12	2035	24.5	-63 1	8.6	8.7	A2	3	..	38798b	62	2986	24.9	-61 2	9.0	8.9	B9	5	..	38798b
13	1468	24.6	+54 55	6.49	7.27	G5	6	..	37717i	63	2042	24.9	-62 8	8.9	8.9	B9	3	..	38798b
14	1932	24.6	+45 13	8.9	9.2	F	2	..	37726i	64	2043	24.9	-62 19	9.4	10.4	Ko	1	..	38798b
15	2385	24.6	+25 30	7.88	8.30	F5	5	..	37505i	65	1671	24.9	-65 33	9.6	9.6	Ao	1	..	38798b
16	2513	24.6	+ 7 46	9.5	10.0	F8	2	..	13731b	66	2061	25.0	+49 29	7.07	7.05	B9	8	1,9	38648i
17	3300	24.6	- 5 45	8.9	9.4	F8	3	..	41240b	67	1880	25.0	+47 12	6.49	7.49	Ko	9	..	37726i
18	3298	24.6	- 9 31	7.12	7.20	A3	10	..	21155b	68	3395	25.0	- 6 17	9.2	10.2	Ko	2	..	41240b
19	3278	24.6	-16 13	10.0	11.2	K5	1	..	39947b	69	3262	25.0	-17 13	7.7	9.1	Ma	4	..	41225b
20	3394	24.6	-17 44	9.6	10.6	Ko	2	..	39947b	70	3398	25.0	-17 20	7.7	8.7	Ko	4	..	41225b
21	3274	24.6	-19 25	10.9	10.6	F5	1	..	39947b	71	9774	25.0	-25 0	9.70	11.0	Ko	3	..	39950b
22	10009	24.6	-23 55	5.73	6.3	Ao	..	..	56,129	72	9141	25.0	-29 54	11.1	11.9	Ko	1	..	40312b
23	8121	24.6	-27 29	6.79	7.6	Ko	8	..	40312b	73	7288	25.0	-37 32	8.9	9.7	G5	2	..	41415b
24	6576	24.6	-41 22	9.6	9.7	A2	2	..	41420b	74	7138	25.0	-39 28	9.6	9.7	F8	2	..	41415b
25	6052	24.6	-50 46	8.5	9.3	K5	1	..	38406b	75	6583	25.0	-41 12	10.2	10.5	Ao	2	..	41420b
26	4566	24.6	-54 51	9.0	10.0	Ko	2	..	38406b	76	7364	25.0	-44 56	8.8	10.5	Ko	2	..	41420b
27	500	24.6	-81 58	8.9	10.0	K2	1	..	45456b	77	6882	25.0	-47 21	8.5	8.7	Fo	4	..	13033b
28	2121	24.7	+43 13	8.2	8.5	Fo	4	..	37726i	78	4406	25.0	-55 20	9.0	9.4	Ko	3	..	38406b
29	2532	24.7	- 1 29	9.0	9.6	Go	1	..	19394b	79	4539	25.0	-56 19	8.4	8.5	A3	5	..	21695b
30	3395	24.7	-17 26	10.9	10.9	Ao	1	..	39947b	80	3526	25.0	-60 57	9.0	9.8	G5	2	..	38798b
31	3396	24.7	-17 52	8.5	8.5	Ao	5	..	41225b	81	2356	25.0	-61 49	10.0	10.0	B9	1	..	38798b
32	3186	24.7	-18 40	10.2	10.8	Go	1	..	39947b	82	2357	25.0	-61 58	9.1	9.0	B8	3	..	38798b
33	3435	24.7	-20 47	8.3	8.8	F5	8	..	39950b	83	1326	25.1	+57 17	6.96	7.24	Fo	7	..	37717i
34	9773	24.7	-24 27	7.33	8.0	Go	9	..	39950b	84	2122	25.1	+43 43	5.88	6.38	F8	10	..	37726i
35	6546	24.7	-48 17	9.2	8.7	Ao	3	..	13033b	85	3300	25.1	-10 5	8.81	9.59	G5	4	..	21155b
36	6217	24.7	-49 18	9.8	9.5	Go	2	..	38416b	86	3399	25.1	-17 57	9.8	10.8	Ko	1	..	39947b
37	4584	24.7	-53 31	9.0	9.1	B9	5	..	38406b	87	3275	25.1	-19 40	9.1	9.1	A2	4	..	41225b
38	4402	24.7	-55 23	9.4	9.4	Ao	5	..	38406b	88	8711	25.1	-26 0	8.4	9.8	K2	4	..	40312b
39	4745	24.7	-57 17	7.9	7.5	B2	3	..	43030b	89	4585	25.1	-53 17	9.8	9.9	A3	2	..	38406b
40	3518	24.7	-59 42	9.1	10.0	Ao	2	..	38798b	90	4408	25.1	-55 19	9.1	9.9	G5	1	..	38406b
41	3519	24.7	-59 52	10.1	10.1	Ao	3	..	38798b	91	2358	25.1	-61 36	9.8	9.8	Ao	1	..	38798b
42	3520	24.7	-59 53	10.0	10.0	Ao	3	..	38798b	92	1902	25.1	-63 29	9.3	9.3	Ao	2	..	38798b
43	2353	24.7	-61 48	10.1	10.1	Ao	1	..	38798b	93	611	25.2	+69 11	9.2	10.0	G5	3	..	37554i
44	1900	24.7	-63 18	9.1	9.0	B5	3	R	38798b	94	964	25.2	+63 6	8.9	9.7	G5	2	..	37718i
45	373	24.8	+81 41	6.13	6.13	Ao	10	..	37465i	95	2102	25.2	+44 7	6.75	7.75	Ko	6	..	37726i
46	2163	24.8	+30 32	6.78	7.06	Fo	7	0,8	38401i	96	2034	25.2	+27 28	8.6	9.4	G5	3	..	37505i
47	2386	24.8	+25 27	8.0	9.0	Ko	4	..	37505i	97	2506	25.2	+ 9 39	8.02	8.36	F2	7	..	13731b
48	2363	24.8	+17 32	8.5	8.6	A2	2	..	38229i	98	3360	25.2	- 2 27	5.07	6.14	K2	6	R	19178b
49	2482	24.8	+ 3 46	8.5	9.0	F8	4	..	11330b	99	3188	25.2	-19 3	10.5	11.5	Ko	1	..	39947b
50	3187	24.8	-19 4	10.2	11.0	G5	1	..	39947b	100	3152	25.2	-22 56	9.3	9.5	Ao	4	..	39950b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

100000

11^h 25^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	9051	25.2	-31 52	9.3	9.1	F8	2	..	41232b	51	4758	25.6	-57 30	8.8	10.0	K5	1	..	38957b
2	7775	25.2	-33 29	8.7	10.3	Ko	2	..	41232b	52	2995	25.6	-60 36	9.5	10.9	Ma	1	..	38798b
3	7369	25.2	-44 8	7.3	9.0	K2	6	..	41420b	53	180	25.6	-87 42	8.3	9.7	Ma	3	5,1	22578b
4	6060	25.2	-51 7	7.4	8.0	F2	8	..	38406b	54	1330	25.7	+60 15	6.78	6.56	A5	7	2,8	38285i
5	4607	25.2	-52 9	9.1	9.5	Ko	2	..	38406b	55	2062	25.7	+49 20	6.42	7.20	G5	7	0,8	38401i
6	2459	25.3	+18 58	5.74	6.74	Ko	8	..	38229i	56	2462	25.7	+19 29	9.3	9.9	G	1	..	38229i
7	2294	25.3	+9 57	9.17	9.95	G5	1	..	13731b	57	3396	25.7	-6 36	9.3	9.9	Go	2	..	41240b
8	3283	25.3	-15 54	9.6	9.7	A5	4	..	39947b	58	3266	25.7	-16 39	9.8	10.4	Go	3	..	39947b
9	3400	25.3	-17 38	9.6	9.9	F2	2	..	41225b	59	3280	25.7	-19 21	9.1	9.4	Ko	3	..	41225b
10	3190	25.3	-19 9	10.2	10.3	Go	1	..	39947b	60	3440	25.7	-20 53	9.3	10.3	F8	4	R	39950b
11	3277	25.3	-19 40	10.0	10.3	Go	2	..	39947b	61	3441	25.7	-21 0	8.5	9.4	A5	5	..	39950b
12	8714	25.3	-25 15	6.68	7.1	Ko	9	..	40312b	62	8718	25.7	-25 10	9.25	10.5	Ko	3	..	40312b
13	4586	25.3	-54 5	9.1	9.4	A2	5	..	38406b	63	8142	25.7	-32 50	9.3	9.7	Fo	1	..	41232b
14	4572	25.3	-54 42	8.0	8.3	Go	5	..	38406b	64	7222	25.7	-36 12	9.0	10.0	Ko	2	..	41415b
15	4570	25.3	-54 46	8.0	9.2	K2	4	..	38406b	65	3537	25.7	-59 58	8.78	8.6	A2	5	..	38798b
16	2993	25.3	-60 42	9.8	9.8	B9	2	..	38798b	66	2190	25.8	+36 47	8.2	8.6	F5	4	..	38401b
17	817	25.3	-75 4	10.2	10.3	A2	1	..	39198b	67	2123	25.8	+32 51	7.30	7.72	F5	6	..	38401b
18	2214	25.4	+41 51	6.99	7.41	F5	8	..	37726i	68	2341	25.8	+12 4	8.3	9.3	Ko	3	..	38357i
19	3131	25.4	-4 9	9.2	10.2	Ko	2	..	19394b	69	2297	25.8	+10 10	8.5	9.3	G5	7	..	13731b
20	3303	25.4	-5 46	9.3	9.8	F8	2	..	41240b	70	3304	25.8	-6 10	7.6	8.1	F8	8	..	41240b
21	3379	25.4	-13 54	8.9	9.5	Go	3	..	21155b	71	3281	25.8	-19 17	9.1	9.4	Fo	3	..	41225b
22	3338	25.4	-14 47	9.3	9.9	Go	2	..	21155b	72	3323	25.8	-22 1	9.6	10.1	F8	3	..	39950b
23	3265	25.4	-17 13	9.1	10.1	Ko	4	2,2	39947b	73	3324	25.8	-22 15	9.3	9.8	Go	4	..	39950b
24	9259	25.4	-30 36	10.6	11.2	Ko	1	..	40312b	74	7176	25.8	-38 41	7.12	8.2	G5	7	..	41415b
25	3531	25.4	-60 3	9.83	9.3	B	2	..	21695b	75	6234	25.8	-49 57	9.1	8.9	Ao	3	..	13033b
26	2361	25.4	-62 3	9.0	9.5	B9	2	..	38798b	76	5769	25.8	-51 33	10.9	9.8	Go	1	..	38406b
27	1596	25.4	-66 31	7.9	7.9	B9	5	..	38798b	77	4621	25.8	-52 42	9.0	9.3	Fo	3	..	38406b
28	859	25.4	-73 58	9.4	10.6	K5	2	..	39198b	78	3675	25.8	-59 4	7.9	9.0	K2	7	..	21695b
29	665	25.5	+69 53	4.06	5.41	Ma	..	R	814c	79	3541	25.8	-59 28	8.7	8.9	A3	4	..	21695b
30	1952	25.5	+48 29	6.38	7.16	G5	9	..	37726i	80	2363	25.8	-61 9	9.1	9.2	B8	2	..	38798b
31	3181	25.5	-8 17	9.3	10.1	G5	3	..	41240b	81	1135	25.8	-72 49	8.1	8.6	F8	4	..	40298b
32	3441	25.5	-12 45	8.9	9.4	F8	3	..	21155b	82	1327	25.9	+57 42	7.84	9.02	K5	3	0,2	37716i
33	3191	25.5	-19 7	10.2	10.6	F5	2	..	39947b	83	2012	25.9	+28 5	8.3	8.8	F8	3	..	37505i
34	6586	25.5	-41 36	8.6	9.7	K5	2	..	41420b	84	2463	25.9	+19 24	9.3	9.8	F8	1	..	38229i
35	6553	25.5	-49 6	7.9	8.1	F5	7	..	13033b	85	3363	25.9	-2 24	9.1	9.9	G5	2	..	19394b
36	4618	25.5	-52 51	10.0	10.0	B9	1	..	38406b	86	3281	25.9	-10 41	9.3	10.3	Ko	2	..	21155b
37	4615	25.5	-52 57	9.0	9.6	Ko	2	..	38406b	87	3402	25.9	-17 16	10.7	11.7	Ko	1	..	39947b
38	4587	25.5	-54 7	9.1	9.1	B9	5	..	38406b	88	3282	25.9	-19 39	8.1	8.3	F5	7	..	41225b
39	4574	25.5	-55 0	9.06	8.8	Ao	6	..	38406b	89	8721	25.9	-25 13	11.3	10.7	A2	2	..	40312b
40	2123	25.6	+43 23	9.1	9.7	Go	2	..	37726i	90	9151	25.9	-29 58	9.7	9.7	Ko	3	..	40312b
41	2176	25.6	+29 0	7.00	8.35	Ma	5	0,6	37505i	91	6589	25.9	-42 2	10.0	10.5	G5	1	..	41420b
42	2295	25.6	+10 21	8.7	9.7	Ko	2	..	13731b	92	7126	25.9	-46 59	9.2	10.2	F8	3	..	38416b
43	3442	25.6	-12 30	6.99	7.27	Fo	8	..	21155b	93	5770	25.9	-52 4	8.5	10.1	K2	1	..	38406b
44	3340	25.6	-14 33	9.6	10.4	G5	2	..	21155b	94	4591	25.9	-53 18	9.4	10.2	G5	1	..	38406b
45	3278	25.6	-19 23	9.8	9.8	Go	3	..	39947b	95	4578	25.9	-55 8	9.6	10.8	K5	1	..	38406b
46	3279	25.6	-20 7	9.88	10.1	F5	2	..	39947b	96	2364	25.9	-61 37	8.6	8.4	A2	4	..	38828b
47	9146	25.6	-29 54	8.3	8.8	F8	3	..	41232b	97	2061	25.9	-62 29	9.6	9.6	Ao	2	..	38798b
48	9261	25.6	-30 45	10.8	10.0	Ao	1	..	40312b	98	2062	25.9	-62 45	8.7	8.7	Ao	4	..	38798b
49	7103	25.6	-43 41	9.2	9.6	A3	4	..	41420b	99	1904	25.9	-63 16	8.0	7.8	Bo	7	..	38798b
50	7044	25.6	-45 59	9.4	9.6	A5	3	..	13033b	100	1905	25.9	-63 38	8.6	9.1	F8	4	..	38798b

THE HENRY DRAPER CATALOGUE.

100100

11^h 25^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1667	25.9	-64 28	9.0	10.2	K5	1	..	38798b	51	3285	26.4	-15 48	10.2	10.6	F5	3	..	39947b
2	1255	25.9	-71 47	9.3	9.4	A2	1	..	40298b	52	3269	26.4	-17 14	10.0	11.2	K5	1	..	39947b
3	358	26.0	+80 28	8.6	10.0	Ma	2	5,2	37465i	53	3445	26.4	-20 26	8.3	9.1	G5	6	..	39950b
4	526	26.0	+73 6	9.5	10.3	G5	2	..	37554i	54	10021	26.4	-23 45	9.3	9.1	A5	7	..	39950b
5	1469	26.0	+55 17	8.6	9.0	F5	4	E	37717i	55	9784	26.4	-24 40	9.6	9.6	Fo	5	..	39950b
6	3283	26.0	-11 15	9.6	10.6	Ko	2	..	21155b	56	9064	26.4	-32 4	8.7	9.1	Ko	4	..	41232b
7	3283	26.0	-19 55	10.6	10.9	K5	1	..	39947b	57	7789	26.4	-33 10	8.0	10.3	K5	2	..	41232b
8	3442	26.0	-21 1	10.2	10.3	Ao	3	..	39950b	58	5778	26.4	-51 40	10.5	10.1	Fo	1	..	38406b
9	3153	26.0	-23 14	10.5	10.1	F5	3	..	39950b	59	4583	26.4	-54 42	10.6	10.6	Ao	1	..	38406b
10	8722	26.0	-25 21	8.7	8.7	Ko	6	..	40312b	60	4769	26.4	-57 43	10.0	10.0	Ao	1	..	38957b
11	7227	26.0	-37 5	8.2	8.9	G5	5	..	41415b	61	3008	26.4	-61 5	8.4	10.3	K5	2	..	38798b
12	4624	26.0	-52 45	9.6	9.6	Ao	1	..	38406b	62	2071	26.4	-62 34	9.8	9.8	B9	1	..	38798b
13	2436	26.1	+40 39	8.4	9.5	K2	2	..	38656i	63	2072	26.4	-63 0	9.4	9.4	Ao	2	..	38798b
14	3325	26.1	-21 43	10.2	11.0	Ko	1	..	39950b	64	1256	26.4	-71 29	9.1	9.2	A5	2	..	40298b
15	3154	26.1	-23 3	10.5	10.1	Ao	3	..	39950b	65	427	26.5	+76 6	9.7	10.1	F5	5	..	4907m
16	8915	26.1	-28 14	8.2	9.2	Ko	6	..	40312b	66	703	26.5	+67 36	8.6	9.6	Ko	2	..	37554i
17	9152	26.1	-29 43	8.9	9.7	Ko	3	..	40312b	67	2216	26.5	+42 1	7.35	7.85	F8	6	..	37726i
18	7302	26.1	-37 12	7.8	9.1	K2	4	..	41415b	68	2515	26.5	+ 8 25	7.9	8.9	Ko	7	..	13731b
19	6592	26.1	-41 22	7.2	8.1	B8	9	..	41420b	69	3398	26.5	- 6 27	9.6	10.4	G5	1	..	41240b
20	6902	26.1	-47 25	8.4	9.5	Ko	3	..	13033b	70	7134	26.5	-46 16	9.1	8.8	Ao	5	..	13033b
21	4581	26.1	-55 0	9.9	10.3	F5	1	..	38406b	71	6577	26.5	-49 7	9.6	9.8	Ko	2	..	38416b
22	3677	26.1	-58 15	7.4	8.0	Go	4	..	38957b	72	4585	26.5	-54 57	9.4	10.2	G5	2	..	38406b
23	3544	26.1	-59 28	8.3	8.3	Ao	5	..	21695b	73	3683	26.5	-58 17	8.8	8.9	A2	2	..	38957b
24	2367	26.1	-61 23	9.8	9.8	B9	2	..	38798b	74	1600	26.5	-67 1	8.7	9.3	Go	1	..	38923b
25	2366	26.1	-61 28	10.0	10.0	Ao	2	..	38798b	75	860	26.5	-74 3	9.3	10.7	Ma	1	..	39198b
26	2065	26.1	-62 14	7.8	7.8	B9	7	..	38798b	76	613	26.6	+69 34	8.34	9.12	G5	3	..	37554i
27	1935	26.2	+45 22	8.2	8.7	F8	3	..	37726i	77	648	26.6	+68 15	9.2	10.2	Ko	2	..	37554i
28	2358	26.2	+23 23	7.78	7.86	A3	5	..	38229i	78	853	26.6	+64 0	8.9	9.3	F5	3	..	37718i
29	2513	26.2	+ 3 37	8.0	8.3	Fo	7	..	11330b	79	2388	26.6	+24 52	7.18	8.25	K2	4	0,4	37505i
30	3084	26.2	- 4 43	8.7	9.1	F5	4	..	41240b	80	2345	26.6	+14 55	6.15	6.71	Go	8	..	38357i
31	3444	26.2	-20 35	8.7	9.4	F5	6	..	39950b	81	3247	26.6	- 8 3	9.3	10.3	Ko	1	..	41240b
32	7046	26.2	-43 0	7.4	9.1	K2	4	..	41420b	82	3286	26.6	-15 40	9.6	10.4	G5	4	..	39947b
33	6076	26.2	-50 23	7.9	8.7	G5	5	..	38406b	83	3194	26.6	-18 27	9.8	10.9	K2	1	..	39947b
34	4556	26.2	-57 5	9.7	9.7	B9	2	..	38957b	84	3155	26.6	-22 15	10.0	10.3	Ko	2	..	39950b
35	3545	26.2	-59 46	7.0	7.0	B9	3	..	43030b	85	3156	26.6	-22 27	10.6	10.3	F5	2	..	39950b
36	3004	26.2	-60 26	10.1	10.1	A	1	..	38798b	86	8921	26.6	-29 4	9.9	10.7	F5	2	..	40312b
37	3002	26.2	-60 31	8.5	8.9	Ko	5	..	38798b	87	9158	26.6	-30 0	9.25	9.7	Ko	3	..	40312b
38	966	26.3	+63 3	9.2	9.8	Go	2	..	38285i	88	9278	26.6	-30 33	9.1	10.6	K5	1	..	41232b
39	2365	26.3	+11 40	8.6	9.1	F8	3	..	38357i	89	8148	26.6	-33 4	9.8	9.4	A2	3	..	41232b
40	2536	26.3	- 1 40	10.0	10.5	F8	1	..	19394b	90	6776	26.6	-41 0	8.0	8.8	Ko	3	..	41420b
41	3134	26.3	- 3 45	9.2	10.6	Mb	1	..	19394b	91	7111	26.6	-44 4	7.1	7.8	A2	7	..	41420b
42	3193	26.3	-18 34	9.6	10.1	F8	3	..	39947b	92	6580	26.6	-48 31	8.9	9.0	G5	2	..	13033b
43	9782	26.3	-24 12	11.1	10.7	Fo	3	..	39950b	93	6582	26.6	-48 54	10.0	10.5	F8	2	..	38416b
44	7507	26.3	-35 6	8.34	9.1	Ko	4	..	41232b	94	5780	26.6	-51 15	8.8	9.2	Ko	3	..	38406b
45	7384	26.3	-44 25	7.1	7.7	G5	7	..	41420b	95	4596	26.6	-54 5	9.0	10.0	G5	2	..	38406b
46	5777	26.3	-51 46	10.5	9.6	B9	2	..	38406b	96	4586	26.6	-54 20	9.7	10.0	Fo	2	..	38406b
47	5776	26.3	-52 3	7.7	8.6	Ao	6	..	38406b	97	3552	26.6	-59 32	8.4	8.9	Ao	4	..	21695b
48	4558	26.3	-56 21	8.5	8.9	Ko	3	..	21695b	98	3011	26.6	-60 43	6.36	7.3	A2p	..	R	56,129
49	2274	26.4	+31 31	7.94	8.94	Ko	3	..	38401i	99	2075	26.6	-62 23	8.2	8.0	Bo	7	..	38798b
50	2505	26.4	+18 19	6.99	6.99	Ao	7	..	38229i	100	2077	26.6	-62 38	9.0	9.0	B9	4	..	38798b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

100200

11^h 26^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	657	26.6	-78 23	9.1	9.7	Go	1	..	21530b	51	4639	27.0	-52 45	10.1	10.1	Ao	1	..	38406b
2	704	26.7	+66 51	8.6	9.6	Ko	1	..	38285i	52	4591	27.0	-54 12	8.3	8.6	F2	6	..	38406b
3	1246	26.7	+61 38	5.47	5.89	F5	10	..	37718i	53	615	27.1	+69 30	8.39	9.17	G5	2	..	37554i
4	2276	26.7	+30 48	7.9	8.9	Ko	2	..	38401i	54	2253	27.1	+37 45	9.7	10.5	G5	1	..	38656i
5	2510	26.7	+9 3	9.3	9.7	F5	2	..	13731b	55	2179	27.1	+29 37	7.81	8.23	F5	4	3,2	37505i
6	3270	26.7	-17 1	9.3	9.8	F8	4	..	39947b	56	2511	27.1	+9 28	9.3	9.4	A2	3	..	13731b
7	8729	26.7	-25 25	11.3	11.4	Go	1	..	39950b	57	3286	27.1	-10 49	9.3	10.4	K2	2	..	21155b
8	6597	26.7	-41 27	9.8	10.5	Ko	1	..	41420b	58	3195	27.1	-18 27	10.5	11.1	Go	1	..	39947b
9	7061	26.7	-45 32	7.8	8.4	Ao	7	..	41420b	59	7188	27.1	-38 38	9.2	9.4	A2	3	..	41415b
10	7058	26.7	-46 2	9.1	9.9	A3	2	..	13033b	60	6913	27.1	-47 40	9.4	9.6	G5	1	..	13033b
11	6910	26.7	-48 6	9.4	9.9	A	1	..	13033b	61	3692	27.1	-58 53	4.96	6.9	F8p	..	R	28,206
12	2370	26.7	-61 43	8.2	9.0	A2	3	..	38828b	62	3693	27.1	-58 58	5.26	5.9	A2p	..	R	28,206
13	1675	26.7	-65 11	8.73	8.7	B3	5	..	38798b	63	2081	27.1	-62 52	9.3	9.3	B8	2	..	38798b
14	1523	26.8	+56 40	7.9	8.4	F8	6	..	37717i	64	1668	27.1	-64 51	8.2	8.2	Ao	6	..	38798b
15	2450	26.8	+39 28	8.02	8.16	A5	..	5,5	56,88	65	445	27.2	+75 43	8.97	9.97	Ko	4	5,3	4907m
16	2342	26.8	+12 13	8.9	9.7	G5	1	..	38357i	66	2217	27.2	+42 19	8.8	9.8	Ko	1	..	37726i
17	3308	26.8	-10 2	9.6	10.1	F8	3	..	21155b	67	2423	27.2	+12 46	8.1	8.5	F5	4	..	38357i
18	3286	26.8	-19 32	10.2	11.2	K5	1	..	39947b	68	2300	27.2	+9 56	9.12	9.54	F5	3	..	13731b
19	3285	26.8	-20 13	6.26	7.4	F5	6	..	5875b	69	2801	27.2	+0 9	8.1	8.6	F8	5	..	11330b
20	3157	26.8	-22 39	10.9	10.9	Ko	1	..	39950b	70	3116	27.2	-11 50	7.49	8.56	K2	7	..	21155b
21	10025	26.8	-23 59	8.7	9.4	K5	5	..	39950b	71	3274	27.2	-17 6	10.2	10.5	F2	2	..	39947b
22	7516	26.8	-34 35	9.2	10.6	K5	1	..	41415b	72	9288	27.2	-30 51	9.9	9.4	Fo	3	..	41232b
23	7514	26.8	-34 52	9.8	10.6	K5	1	..	41415b	73	5787	27.2	-51 54	8.6	8.9	F5	5	R	38406b
24	7153	26.8	-39 38	8.1	8.2	A2	6	..	41415b	74	5788	27.2	-51 54	8.6	8.9	F5	5	R	38406b
25	7053	26.8	-42 55	9.6	10.9	K5	1	..	41420b	75	4426	27.2	-55 11	9.60	10.6	Mb	2	..	38406b
26	7113	26.8	-43 14	9.1	9.3	Ao	4	..	41420b	76	3562	27.2	-60 3	7.48	6.9	Bo	7	..	38798b
27	7114	26.8	-43 26	9.0	9.6	Fo	3	..	41420b	77	3017	27.2	-60 8	8.13	8.3	Ao	6	..	38798b
28	7393	26.8	-44 11	6.9	8.4	K5	6	..	41420b	78	2380	27.2	-61 13	7.9	8.6	Go	7	..	38798b
29	6086	26.8	-50 18	9.54	9.5	A3	2	..	38406b	79	2379	27.2	-61 32	8.3	9.0	A2	3	..	38828b
30	4776	26.8	-57 9	9.2	10.0	G5	2	..	38957b	80	1670	27.2	-65 8	9.6	9.6	Ao	2	..	38798b
31	3688	26.8	-59 7	9.1	9.3	A3	4	..	21695b	81	1676	27.2	-65 51	8.7	8.8	A3	3	..	38798b
32	1601	26.8	-66 52	8.4	8.4	B8	4	..	38923b	82	1755	27.2	-67 11	7.9	8.2	Fo	5	..	38923b
33	367	26.9	+79 1	9.0	10.0	Ko	1	..	37465i	83	649	27.3	+68 35	10.5	10.5	Ao	3	..	37554i
34	428	26.9	+76 12	10.2	11.0	G5	1	..	4907m	84	1525	27.3	+55 58	8.7	9.2	F8	2	..	37717i
35	2192	26.9	+36 47	6.56	7.56	Ko	7	..	38401i	85	3087	27.3	-5 4	8.1	9.2	K2	5	..	41240b
36	2506	26.9	+18 43	8.0	9.4	Ma	2	..	38229i	86	8928	27.3	-28 43	5.86	6.1	Go	..	R	56,129
37	2447	26.9	-1 14	7.6	7.6	Ao	9	..	19394b	87	8928	27.3	-28 43	5.78	6.1	Go	..	R	56,129
38	3307	26.9	-5 55	6.88	7.88	Ko	9	..	41240b	88	9164	27.3	-29 53	8.5	9.2	F2	4	..	40312b
39	3272	26.9	-16 52	10.2	11.6	Ma	1	..	39947b	89	9292	27.3	-30 49	9.4	9.4	G5	2	..	40312b
40	3404	26.9	-17 41	9.3	9.4	A5	5	..	39947b	90	7242	27.3	-36 25	9.2	9.7	K2	2	..	41415b
41	6586	26.9	-48 53	9.4	9.3	Go	2	..	13033b	91	6607	27.3	-41 49	8.6	9.4	F5	4	..	41420b
42	3556	26.9	-60 6	8.73	8.1	B2	5	..	38798b	92	3695	27.3	-58 49	9.6	9.6	Ao	2	..	21695b
43	2080	26.9	-62 40	9.3	9.3	B9	2	..	38798b	93	3564	27.3	-59 11	8.5	8.3	Ao	7	..	21695b
44	429	27.0	+76 19	10.0	10.5	F8	5	2,3-	4907m	94	3019	27.3	-61 5	9.8	9.8	Ao	1	..	38798b
45	3364	27.0	-2 59	8.7	9.7	Ko	5	..	19394b	95	2084	27.3	-62 36	8.9	10.0	K2	1	..	38798b
46	3401	27.0	-7 4	8.9	9.5	Go	4	..	41240b	96	1910	27.3	-63 21	9.0	9.0	B8	3	..	38798b
47	3405	27.0	-18 13	9.3	9.8	F8	3	..	39947b	97	854	27.4	+64 27	9.1	9.5	F5	3	..	37718i
48	8614	27.0	-26 11	9.9	9.7	A5	4	..	40312b	98	1188	27.4	+62 39	8.0	9.0	Ko	6	5,4	37716i
49	8152	27.0	-27 27	10.6	10.5	Go	1	..	40312b	99	1247	27.4	+61 10	8.8	9.6	G5	1	..	37718i
50	6090	27.0	-51 6	8.8	8.6	B9	7	..	38406b	100	1570	27.4	+52 19	8.8	8.9	A2	1	..	38648i

THE HENRY DRAPER CATALOGUE.

100300

11^h 27^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1832	27.4	+50 3	8.3	9.5	K5	2	..	38648i	51	7157	27.7	-46 58	9.6	10.7	Go	3	..	38416b
2	2389	27.4	+24 52	9.06	10.06	Ko	1	..	37505i	52	6261	27.7	-49 29	8.9	8.6	Ao	5	..	13033b
3	3089	27.4	-4 51	8.7	9.7	Ko	4	..	41240b	53	4599	27.7	-54 16	9.2	10.2	Ko	1	..	38406b
4	3288	27.4	-11 9	9.3	10.5	K5	1	..	21155b	54	3029	27.7	-60 36	9.5	9.5	B8	3	..	38798b
5	3288	27.4	-19 22	9.6	10.3	Ko	3	..	39947b	55	2391	27.7	-61 59	8.7	8.9	B8	4	..	38798b
6	3159	27.4	-22 50	9.1	9.7	Ko	5	..	39950b	56	1671	27.7	-64 11	9.1	10.3	K5	1	..	38798b
7	8620	27.4	-26 11	6.50	7.4	Ma	8	..	40312b	57	1604	27.7	-66 29	8.8	8.8	Ao	3	..	38798b
8	673	27.4	-76 31	9.5	10.1	Go	2	..	39198b	58	1259	27.7	-71 56	9.1	9.1	Ao	3	..	40298b
9	430	27.5	+76 1	10.0	10.8	G5	2	..	4907m	59	864	27.7	-73 21	7.2	7.2	B9	7	..	40298b
10	1497	27.5	+53 6	9.1	10.1	Ko	1	..	38648i	60	2453	27.8	+39 25	8.2	9.2	Ko	..	5,6	56,88
11	2452	27.5	+39 25	7.92	8.00	A3	..	0,7	56,88	61	2303	27.8	+10 11	9.0	9.8	G5	1	..	13731b
12	2390	27.5	+25 18	9.2	9.8	G	1	..	37505i	62	2302	27.8	+9 56	8.42	8.92	F8	6	..	13731b
13	2440	27.5	+1 54	8.4	8.9	F8	4	..	11330b	63	3123	27.8	-11 29	8.3	8.4	A2	7	..	21155b
14	3309	27.5	-5 15	8.40	9.18	G5	4	..	41240b	64	3121	27.8	-12 1	9.1	9.1	Ao	4	..	21155b
15	3403	27.5	-6 22	9.6	10.4	G5	1	..	41240b	65	10039	27.8	-23 22	9.3	8.8	F8	7	..	39950b
16	3289	27.5	-20 13	10.5	10.3	F8	2	..	39947b	66	7248	27.8	-36 56	9.2	10.3	K5	1	..	41415b
17	8931	27.5	-28 35	7.58	9.1	Ma	6	..	40312b	67	7158	27.8	-46 31	8.2	8.2	Ao	8	..	13033b
18	8930	27.5	-28 58	9.4	10.5	Ko	2	..	40312b	68	3034	27.8	-61 3	9.1	8.6	B8	4	..	38798b
19	9295	27.5	-30 25	8.7	9.7	K2	3	..	41232b	69	1139	27.8	-72 14	9.5	9.5	Ao	2	..	39198b
20	7273	27.5	-35 46	8.6	8.8	Ao	7	..	41415b	70	417	27.8	-83 32	8.25	8.2	Ao	6	0,6	13459b
21	7191	27.5	-38 34	9.6	9.8	Fo	2	..	41415b	71	616	27.9	+68 48	10.2	11.0	G5	2	..	37554i
22	3024	27.5	-60 48	9.3	10.3	Ko	1	..	38798b	72	2129	27.9	+33 40	7.9	8.4	F8	3	..	38401i
23	1911	27.5	-63 21	8.2	8.2	B8	5	..	38798b	73	2616	27.9	+20 5	8.7	9.5	G5	2	..	38229i
24	1758	27.5	-67 30	8.9	8.7	Bo	5	..	38923b	74	2441	27.9	+1 50	8.6	9.6	Ko	2	..	11330b
25	1390	27.5	-70 23	9.1	9.1	Ao	3	..	38923b	75	3162	27.9	-22 53	7.32	7.8	A2	10	..	39950b
26	1258	27.5	-71 22	8.5	8.5	Ao	7	..	40298b	76	8625	27.9	-27 4	9.3	9.3	Fo	4	..	40312b
27	338	27.5	-84 24	9.2	9.5	Fo	3	0,2-	13459b	77	8933	27.9	-28 11	9.9	10.3	K5	1	..	40312b
28	3137	27.6	-3 56	8.8	9.9	K2	4	..	19394b	78	7168	27.9	-39 53	5.71	8.1	Ma	..	5,8	56,129
29	8158	27.6	-27 12	9.1	10.2	Ko	2	..	40312b	79	4794	27.9	-57 47	9.4	9.4	Ao	2	..	38957b
30	8159	27.6	-32 23	8.3	8.1	Ao	7	..	41232b	80	3573	27.9	-59 10	7.0	7.0	A2	..	0,3	28,206
31	6260	27.6	-49 24	9.6	9.2	G5	1	..	13033b	81	3037	27.9	-60 11	8.83	8.3	B5	3	..	38798b
32	6103	27.6	-50 22	9.1	9.5	K2	2	..	38406b	82	1605	27.9	-66 24	5.93	7.4	Ko	..	0,9	56,129
33	4596	27.6	-54 9	10.0	10.0	B9	2	..	38406b	83	1260	27.9	-71 26	8.3	9.5	K5	3	..	40298b
34	4789	27.6	-57 57	8.9	9.4	Go	2	..	38957b	84	1261	27.9	-72 7	9.0	10.0	Ko	2	..	39198b
35	3028	27.6	-60 18	7.93	7.8	B5	7	..	38798b	85	375	28.0	+81 22	9.5	9.5	Ao	2	..	37465i
36	..	27.6	-64 52	var.	var.	Pec.	1	R	38798b	86	1884	28.0	+47 10	9.8	10.4	Go	2	..	37726i
37	2439	27.7	+39 52	8.07	9.07	Ko	4	..	38656i	87	2468	28.0	+19 22	8.5	8.9	F5	4	..	38229i
38	2230	27.7	+34 35	7.42	8.49	K2	4	..	38401i	88	2518	28.0	+7 58	8.3	9.3	Ko	4	..	13731b
39	2507	27.7	+18 34	7.26	7.68	F5	4	..	38229i	89	3093	28.0	-5 3	9.1	10.1	Ko	2	..	41240b
40	2461	27.7	+5 50	10.0	10.0	B9	2	..	13731b	90	10042	28.0	-23 20	9.1	9.7	K2	4	..	39950b
41	2508	27.7	+5 25	9.7	10.8	K2	1	..	13731b	91	9801	28.0	-24 22	10.4	10.7	F8	3	..	39950b
42	3404	27.7	-6 51	9.3	9.8	F8	3	..	41240b	92	9173	28.0	-29 55	9.9	10.6	F8	1	..	40312b
43	3250	27.7	-7 16	6.17	7.17	Ko	9	..	41240b	93	9303	28.0	-30 33	5.23	7.4	Ma	..	5,9	28,206
44	3186	27.7	-8 24	8.52	9.59	K2	3	..	21155b	94	9081	28.0	-31 31	9.1	9.1	Go	3	..	41232b
45	3291	27.7	-16 5	8.6	9.0	F5	6	..	41225b	95	7280	28.0	-35 39	6.79	7.8	Go	9	..	41415b
46	3275	27.7	-16 56	9.6	10.6	Ko	2	..	39947b	96	7132	28.0	-43 8	7.7	8.0	Ao	7	..	41420b
47	3198	27.7	-18 19	8.7	9.7	Ko	6	0,3	39947b	97	6266	28.0	-49 58	8.40	8.3	A2	7	..	38406b
48	3328	27.7	-21 27	9.6	10.3	Go	2	..	39950b	98	6268	28.0	-50 3	9.19	9.5	Ko	2	..	38406b
49	8160	27.7	-27 21	9.1	10.2	K5	2	..	40312b	99	4611	28.0	-54 3	8.4	9.5	Ko	4	..	38406b
50	8159	27.7	-28 3	8.2	9.0	Fo	5	..	40312b	100	3039	28.0	-60 50	9.3	9.3	B8	2	..	38798b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

100400

11^h 28^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	738	28.0	-75 45	8.8	9.8	Ko	3	..	39198b	51	9176	28.4	-30 7	9.85	9.7	F5	3	..	40312b
2	446	28.1	+75 15	10.5	10.9	F5	3	..	4907m	52	5800	28.4	-51 48	9.6	9.2	F5	3	..	38406b
3	1526	28.1	+56 9	8.2	9.2	Ko	3	E	37717i	53	4613	28.4	-53 46	8.3	8.3	Fo	7	..	38406b
4	2193	28.1	+37 19	8.6	8.9	F2	4	..	38401i	54	4607	28.4	-55 5	9.06	9.2	A3	5	..	38406b
5	2035	28.1	+27 8	9.7	9.8	A2	1	..	37505i	55	3045	28.4	-60 46	9.0	10.1	K5	2	..	38798b
6	3291	28.1	-19 16	8.9	9.1	A5	4	..	41225b	56	2519	28.5	+3 4	6.74	7.92	K5	6	..	11330b
7	9083	28.1	-31 18	3.72	4.50	G5	..	R	28,206	57	3313	28.5	-5 59	8.1	9.1	Ko	7	..	41240b
8	6113	28.1	-50 23	8.4	8.7	F8	5	..	38406b	58	3292	28.5	-19 57	9.6	9.8	F8	5	..	39947b
9	5796	28.1	-51 35	8.2	8.6	Ko	7	..	38406b	59	3166	28.5	-22 38	9.6	10.0	K2	4	..	39950b
10	4603	28.1	-54 32	9.9	10.0	A3	1	..	38406b	60	9806	28.5	-24 11	9.3	10.5	F8	4	..	39950b
11	4797	28.1	-57 30	9.4	10.2	G5	2	..	38957b	61	8749	28.5	-25 15	9.85	11.4	Ko	2	..	39950b
12	3579	28.1	-59 28	7.9	8.9	Ao	3	..	21695b	62	4657	28.5	-52 10	8.7	9.8	Ko	2	..	38406b
13	1673	28.1	-64 15	8.6	9.6	Ko	2	..	38798b	63	4658	28.5	-52 47	10.1	10.1	Ao	1	..	38406b
14	2374	28.2	+22 8	8.8	9.8	Ko	2	..	38229i	64	4614	28.5	-53 18	8.5	8.8	Ao	1	..	38406b
15	2492	28.2	+4 42	8.91	8.99	A3	3	..	11330b	65	4804	28.5	-57 36	9.4	9.4	B9	3	..	38957b
16	2491	28.2	+3 54	7.9	8.9	Ko	5	..	11330b	66	2404	28.5	-61 42	9.1	9.8	Go	2	..	38798b
17	2518	28.2	+3 2	8.6	8.6	Ao	7	..	11330b	67	1762	28.5	-67 45	9.5	9.5	Ao	1	..	38923b
18	3295	28.2	-15 43	6.00	6.56	Go	10	..	41225b	68	339	28.5	-84 16	8.8	9.1	F2	4	2,3	45466b
19	3408	28.2	-17 21	10.5	11.5	Ko	1	..	39947b	69	1447	28.6	+54 20	8.6	9.6	Ko	2	..	38321i
20	3409	28.2	-18 10	9.3	10.1	G5	2	..	39947b	70	2195	28.6	+37 23	6.33	7.33	Ko	8	..	38401i
21	3200	28.2	-18 50	10.2	10.7	F8	2	..	39947b	71	2514	28.6	+9 6	9.3	10.5	K5	1	..	13731b
22	3330	28.2	-21 42	10.5	10.3	Go	1	..	39950b	72	3293	28.6	-19 59	8.9	8.5	A3	5	..	41225b
23	6613	28.2	-41 35	10.0	10.5	Ao	1	..	41420b	73	3167	28.6	-22 17	10.2	10.6	K5	1	..	39950b
24	7136	28.2	-43 45	8.5	9.3	Ao	4	..	41420b	74	8750	28.6	-25 58	8.3	8.5	F5	6	..	40312b
25	7411	28.2	-44 13	8.2	9.3	K5	3	..	41420b	75	6792	28.6	-40 52	10.0	10.5	Ao	2	..	41420b
26	4604	28.2	-54 29	10.0	10.0	Ao	2	..	38406b	76	6122	28.6	-50 21	8.0	8.9	Ko	5	..	38406b
27	4583	28.2	-57 7	9.3	9.4	A2	2	..	38957b	77	6121	28.6	-50 48	8.2	8.1	Ao	7	..	38406b
28	3582	28.2	-59 43	8.9	9.5	F8	2	..	38798b	78	4591	28.6	-56 58	8.9	9.7	G5	2	..	38957b
29	3042	28.2	-61 0	9.3	10.3	Ko	2	R	38798b	79	4805	28.6	-57 32	8.9	9.9	A	1	..	38957b
30	2400	28.2	-61 16	8.0	8.1	A2	6	..	38828i	80	1607	28.6	-66 26	9.1	9.1	Ao	2	..	38798b
31	1680	28.2	-65 18	7.5	7.5	B9	7	..	38798b	81	1763	28.6	-67 59	9.4	9.4	Ao	1	..	38923b
32	170	28.3	+86 10	7.37	7.65	Fo	8	..	37793i	82	1262	28.6	-71 30	8.9	8.9	Ao	3	..	40298b
33	650	28.3	+68 8	9.0	9.1	A5	6	..	37554i	83	663	28.6	-79 0	9.0	10.0	Ko	1	..	13467b
34	2231	28.3	+26 41	8.7	9.7	Ko	1	..	37505i	84	570	28.6	-80 52	8.4	8.5	A3	4	0,4	13466b
35	2520	28.3	+8 33	8.3	9.3	Ko	5	..	13731b	85	2066	28.7	+49 6	8.3	8.9	Go	5	..	37726i
36	2463	28.3	+6 25	9.3	10.3	Ko	1	..	13731b	86	2404	28.7	+14 7	8.0	9.1	K2	4	..	38357i
37	2580	28.3	+1 21	8.5	9.6	K2	1	..	11330b	87	3296	28.7	-15 47	9.6	9.7	A2	2	..	41225b
38	3188	28.3	-8 59	9.1	9.7	Go	4	..	21155b	88	3294	28.7	-19 48	10.9	10.6	Ao	2	..	39947b
39	3201	28.3	-18 57	10.2	11.3	K2	1	..	39947b	89	3332	28.7	-21 16	8.9	9.8	Go	5	..	39950b
40	3164	28.3	-22 35	8.5	9.7	K2	5	..	39950b	90	3331	28.7	-21 54	8.5	9.1	Fo	7	..	39950b
41	7137	28.3	-43 11	7.9	8.4	A2	6	..	41420b	91	3169	28.7	-22 54	8.3	8.8	Ko	7	..	39950b
42	7079	28.3	-45 27	9.6	9.9	F5	2	..	41420b	92	9809	28.7	-25 1	12.0	11.4	Ko	1	..	39950b
43	2402	28.3	-61 53	8.6	9.5	Go	3	..	38798b	93	7175	28.7	-40 2	5.50	5.56	A2	..	2,10	56,129
44	2094	28.3	-63 6	8.6	8.5	B5	5	..	38798b	94	7139	28.7	-43 36	9.4	9.6	Ao	3	..	41420b
45	1674	28.3	-65 4	9.13	9.6	Ko	2	..	38798b	95	2096	28.7	-62 33	9.3	9.3	B8	2	..	38798b
46	724	28.4	+65 48	7.22	7.72	F8	7	3,7	37554i	96	1522	28.7	-68 43	9.4	9.4	A	1	..	38923b
47	2618	28.4	+20 15	7.22	8.29	K2	5	..	38229i	97	1392	28.7	-70 21	8.2	9.2	Ko	2	..	38923b
48	3190	28.4	-8 35	8.9	9.7	G5	3	..	41240b	98	359	28.8	+79 54	9.7	10.7	Ko	1	..	37465i
49	3165	28.4	-22 56	10.5	10.1	G5	2	..	39950b	99	3296	28.8	-19 20	9.8	10.1	Go	3	..	39947b
50	8747	28.4	-25 32	11.1	10.8	F8	3	..	39950b	100	8633	28.8	-26 16	8.7	9.0	K2	4	..	40312b

THE HENRY DRAPER CATALOGUE.

100500

11^h 28^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8941	28.8	-28 49	9.3	10.5	A5	2	..	40312b	51	3455	29.2	-12 19	8.1	8.6	F8	6	..	21155b
2	9179	28.8	-30 6	8.30	8.2	F8	5	..	41232b	52	3399	29.2	-13 28	9.3	10.1	G5	2	..	21155b
3	9311	28.8	-30 32	9.1	10.6	K5	2	..	40312b	53	9184	29.2	-29 58	10.4	9.7	F8	3	..	40312b
4	7084	28.8	-45 45	8.6	9.3	Go	5	..	41420b	54	7814	29.2	-33 20	8.6	10.3	Ko	1	..	41232b
5	4665	28.8	-52 52	9.5	10.1	Go	1	..	38406b	55	6618	29.2	-48 16	8.2	8.1	G5	4	..	13033b
6	4619	28.8	-53 32	9.7	10.1	F5	1	..	38406b	56	5808	29.2	-51 56	10.2	10.3	Ko	1	..	38406b
7	3053	28.8	-60 13	8.88	8.4	B9	5	..	38828b	57	5807	29.2	-52 2	9.8	9.8	Ko	2	..	38406b
8	1609	28.8	-66 30	7.7	8.7	Ko	6	..	38798b	58	4673	29.2	-52 35	9.2	9.5	Fo	3	..	38406b
9	2348	28.9	+15 27	8.5	9.3	G5	2	..	38357i	59	4622	29.2	-53 30	9.0	9.2	G5	3	..	38406b
10	2465	28.9	+6 29	9.3	9.8	F8	1	..	13731b	60	1558	29.2	-70 2	9.31	9.5	K5	1	..	38923b
11	8174	28.9	-32 14	9.0	8.8	Ao	3	..	41232b	61	1249	29.3	+61 14	9.2	10.0	G5	2	..	38285i
12	7200	28.9	-38 21	8.9	10.5	Ko	1	..	41415b	62	1574	29.3	+52 32	8.2	9.0	G5	3	..	38321i
13	7086	28.9	-45 58	8.4	8.2	A2	6	..	41420b	63	2521	29.3	+3 37	5.81	6.23	F5	9	..	11330b
14	4611	28.9	-54 32	9.0	9.9	Ao	1	..	38406b	64	3373	29.3	-2 57	9.1	9.7	Go	1	..	19394b
15	4613	28.9	-54 35	8.9	10.3	K2	1	..	38406b	65	3096	29.3	-4 58	6.70	6.76	A2	4	1,9-	19178b
16	1524	28.9	-68 17	8.7	8.5	B3	3	..	38923b	66	3349	29.3	-14 57	8.1	8.6	F8	4	..	41225b
17	2375	29.0	+22 35	8.4	9.5	K2	2	..	38229i	67	3170	29.3	-22 21	10.7	10.3	F8	2	..	39950b
18	2372	29.0	+11 35	6.46	6.52	A2	9	..	38357i	68	10057	29.3	-24 1	11.1	10.6	Ko	1	..	39950b
19	3140	29.0	-3 37	8.7	9.3	Go	4	..	19394b	69	7183	29.3	-39 23	7.8	9.7	K5	2	..	41415b
20	3397	29.0	-14 6	8.7	9.7	Ko	2	..	21155b	70	7181	29.3	-46 24	9.1	9.3	Ao	4	..	13033b
21	3411	29.0	-17 29	10.0	10.8	G5	1	..	39947b	71	5814	29.3	-51 52	10.0	10.0	Go	2	..	38406b
22	3333	29.0	-21 44	10.2	11.4	K5	1	..	39950b	72	4618	29.3	-54 47	9.8	9.9	A3	3	..	38406b
23	9092	29.0	-31 22	9.6	10.6	K2	2	..	40312b	73	447	29.4	+74 46	9.07	10.07	Ko	3	..	4907m
24	6800	29.0	-40 44	9.2	9.4	F5	2	..	41415b	74	576	29.4	+71 21	8.8	9.6	G5	4	..	37554i
25	6801	29.0	-41 1	8.9	10.0	Ko	2	..	41420b	75	856	29.4	+64 22	9.1	9.9	G5	2	..	37718i
26	6283	29.0	-49 53	8.4	8.0	F5	5	..	13033b	76	1885	29.4	+47 9	9.7	10.5	G5	2	..	37726i
27	4668	29.0	-52 49	9.5	9.8	F2	2	..	38406b	77	2346	29.4	+12 2	9.3	10.3	Ko	1	..	38357i
28	4596	29.0	-57 5	8.1	7.7	Ao	6	0,2	38957b	78	3400	29.4	-13 16	8.3	9.3	Ko	5	..	21155b
29	2100	29.0	-62 24	9.5	9.5	Ao	2	..	38798b	79	3280	29.4	-16 33	9.2	9.8	Go	4	..	39947b
30	1919	29.0	-63 20	9.0	9.0	B8	2	..	38798b	80	3415	29.4	-17 29	10.0	10.6	Go	1	..	39947b
31	687	29.0	-77 58	9.1	10.2	K2	1	..	21530b	81	3171	29.4	-23 9	9.6	9.5	A3	5	..	39950b
32	464	29.1	+73 57	8.0	8.4	F5	5	0,7	37742i	82	9821	29.4	-24 46	9.6	10.8	K2	3	..	39950b
33	707	29.1	+66 51	8.7	9.5	G5	1	..	37554i	83	8755	29.4	-25 32	10.4	10.5	F5	3	..	39950b
34	855	29.1	+64 11	8.6	9.2	Go	2	..	38285i	84	8177	29.4	-27 37	9.1	9.6	Ko	4	..	40312b
35	2349	29.1	+15 15	8.6	9.4	G5	3	..	38357i	85	9186	29.4	-30 3	9.85	10.6	Go	2	..	40312b
36	3192	29.1	-8 32	9.1	9.9	G5	1	..	41240b	86	7293	29.4	-35 39	7.8	8.5	K2	5	..	41415b
37	3297	29.1	-15 30	7.21	8.28	K2	5	..	41225b	87	6807	29.4	-40 36	7.4	8.2	Ao	7	..	41415b
38	3298	29.1	-15 51	8.7	9.0	Fo	4	..	41225b	88	6620	29.4	-48 11	9.4	9.5	Go	2	..	38416b
39	3413	29.1	-18 13	9.6	10.6	Ko	1	..	39947b	89	6291	29.4	-49 29	9.2	9.5	Ko	2	..	13033b
40	6804	29.1	-40 25	9.2	9.8	Ko	1	..	41415b	90	6135	29.4	-50 39	10.0	9.3	A2	4	..	38406b
41	4671	29.1	-52 47	8.5	8.9	G5	5	..	38406b	91	3712	29.4	-58 34	9.0	9.2	Ao	3	..	39857b
42	4615	29.1	-54 19	10.0	10.0	Ao	2	..	38406b	92	3713	29.4	-59 0	9.1	9.5	Go	2	..	21695b
43	4614	29.1	-54 59	10.2	10.2	Ao	2	..	38406b	93	1676	29.4	-64 56	9.1	9.9	G5	1	..	38798b
44	3058	29.1	-60 20	8.6	9.2	Ko	3	..	38828b	94	1683	29.4	-65 35	9.6	9.6	Ao	2	..	38798b
45	1681	29.1	-65 42	9.0	9.6	Go	2	..	38798b	95	1393	29.4	-70 51	8.4	9.4	Ko	1	..	38923b
46	1557	29.1	-69 38	6.66	6.3	B9	8	..	38923b	96	708	29.5	+67 45	9.1	9.2	A3	2	..	37554i
47	1264	29.1	-72 7	9.7	9.7	Ao	1	..	39198b	97	2068	29.5	+49 38	8.87	9.87	Ko	1	..	38648i
48	2067	29.2	+49 4	8.8	9.4	G	2	..	37726i	98	2162	29.5	+32 44	8.2	8.3	A2	2	..	38401i
49	2361	29.2	+23 26	8.2	8.3	A2	3	..	37505i	99	2369	29.5	+23 53	8.6	9.6	Ko	1	..	37505i
50	2496	29.2	+4 40	9.05	10.05	Ko	3	..	13731b	100	2374	29.5	+17 21	5.76	5.59	B3	..	0,8	56,88

ANNALS OF HARVARD COLLEGE OBSERVATORY.

100400

11^h 28^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	738	28.0	-75 45	8.8	9.8	Ko	3	..	39198b	51	9176	28.4	-30 7	9.85	9.7	F5	3	..	40312b
2	446	28.1	+75 15	10.5	10.9	F5	3	..	4907m	52	5800	28.4	-51 48	9.6	9.2	F5	3	..	38406b
3	1526	28.1	+56 9	8.2	9.2	Ko	3	E	37717i	53	4613	28.4	-53 46	8.3	8.3	Fo	7	..	38406b
4	2193	28.1	+37 19	8.6	8.9	F2	4	..	38401i	54	4607	28.4	-55 5	9.06	9.2	A3	5	..	38406b
5	2035	28.1	+27 8	9.7	9.8	A2	1	..	37505i	55	3045	28.4	-60 46	9.0	10.1	K5	2	..	38798b
6	3291	28.1	-19 16	8.9	9.1	A5	4	..	41225b	56	2519	28.5	+3 4	6.74	7.92	K5	6	..	11330b
7	9083	28.1	-31 18	3.72	4.50	G5	..	R	28,206	57	3313	28.5	-5 59	8.1	9.1	Ko	7	..	41240b
8	6113	28.1	-50 23	8.4	8.7	F8	5	..	38406b	58	3292	28.5	-19 57	9.6	9.8	F8	5	..	39947b
9	5796	28.1	-51 35	8.2	8.6	Ko	7	..	38406b	59	3166	28.5	-22 38	9.6	10.0	K2	4	..	39950b
10	4603	28.1	-54 32	9.9	10.0	A3	1	..	38406b	60	9806	28.5	-24 11	9.3	10.5	F8	4	..	39950b
11	4797	28.1	-57 30	9.4	10.2	G5	2	..	38957b	61	8749	28.5	-25 15	9.85	11.4	Ko	2	..	39950b
12	3579	28.1	-59 28	7.9	8.9	Ao	3	..	21695b	62	4657	28.5	-52 10	8.7	9.8	Ko	2	..	38406b
13	1673	28.1	-64 15	8.6	9.6	Ko	2	..	38798b	63	4658	28.5	-52 47	10.1	10.1	Ao	1	..	38406b
14	2374	28.2	+22 8	8.8	9.8	Ko	2	..	38229i	64	4614	28.5	-53 18	8.5	8.8	Ao	1	..	38406b
15	2492	28.2	+4 42	8.91	8.99	A3	3	..	11330b	65	4804	28.5	-57 36	9.4	9.4	B9	3	..	38957b
16	2491	28.2	+3 54	7.9	8.9	Ko	5	..	11330b	66	2404	28.5	-61 42	9.1	9.8	Go	2	..	38798b
17	2518	28.2	+3 2	8.6	8.6	Ao	7	..	11330b	67	1762	28.5	-67 45	9.5	9.5	Ao	1	..	38923b
18	3295	28.2	-15 43	6.00	6.56	Go	10	..	41225b	68	339	28.5	-84 16	8.8	9.1	F2	4	2,3	45466b
19	3408	28.2	-17 21	10.5	11.5	Ko	1	..	39947b	69	1447	28.6	+54 20	8.6	9.6	Ko	2	..	38321i
20	3409	28.2	-18 10	9.3	10.1	G5	2	..	39947b	70	2195	28.6	+37 23	6.33	7.33	Ko	8	..	38401i
21	3200	28.2	-18 50	10.2	10.7	F8	2	..	39947b	71	2514	28.6	+9 6	9.3	10.5	K5	1	..	13731b
22	3330	28.2	-21 42	10.5	10.3	Go	1	..	39950b	72	3293	28.6	-19 59	8.9	8.5	A3	5	..	41225b
23	6613	28.2	-41 35	10.0	10.5	Ao	1	..	41420b	73	3167	28.6	-22 17	10.2	10.6	K5	1	..	39950b
24	7136	28.2	-43 45	8.5	9.3	Ao	4	..	41420b	74	8750	28.6	-25 58	8.3	8.5	F5	6	..	40312b
25	7411	28.2	-44 13	8.2	9.3	K5	3	..	41420b	75	6792	28.6	-40 52	10.0	10.5	Ao	2	..	41420b
26	4604	28.2	-54 29	10.0	10.0	Ao	2	..	38406b	76	6122	28.6	-50 21	8.0	8.9	Ko	5	..	38406b
27	4583	28.2	-57 7	9.3	9.4	A2	2	..	38957b	77	6121	28.6	-50 48	8.2	8.1	Ao	7	..	38406b
28	3582	28.2	-59 43	8.9	9.5	F8	2	..	38798b	78	4591	28.6	-56 58	8.9	9.7	G5	2	..	38957b
29	3042	28.2	-61 0	9.3	10.3	Ko	2	R	38798b	79	4805	28.6	-57 32	8.9	9.9	A	1	..	38957b
30	2400	28.2	-61 16	8.0	8.1	A2	6	..	38828i	80	1607	28.6	-66 26	9.1	9.1	Ao	2	..	38798b
31	1680	28.2	-65 18	7.5	7.5	B9	7	..	38798b	81	1763	28.6	-67 59	9.4	9.4	Ao	1	..	38923b
32	170	28.3	+86 10	7.37	7.65	Fo	8	..	37793i	82	1262	28.6	-71 30	8.9	8.9	Ao	3	..	40298b
33	650	28.3	+68 8	9.0	9.1	A5	6	..	37554i	83	663	28.6	-79 0	9.0	10.0	Ko	1	..	13467b
34	2231	28.3	+26 41	8.7	9.7	Ko	1	..	37505i	84	570	28.6	-80 52	8.4	8.5	A3	4	0,4	13466b
35	2520	28.3	+8 33	8.3	9.3	Ko	5	..	13731b	85	2066	28.7	+49 6	8.3	8.9	Go	5	..	37726i
36	2463	28.3	+6 25	9.3	10.3	Ko	1	..	13731b	86	2404	28.7	+14 7	8.0	9.1	K2	4	..	38357i
37	2580	28.3	+1 21	8.5	9.6	K2	1	..	11330b	87	3296	28.7	-15 47	9.6	9.7	A2	2	..	41225b
38	3188	28.3	-8 59	9.1	9.7	Go	4	..	21155b	88	3294	28.7	-19 48	10.9	10.6	Ao	2	..	39947b
39	3201	28.3	-18 57	10.2	11.3	K2	1	..	39947b	89	3332	28.7	-21 16	8.9	9.8	Go	5	..	39950b
40	3164	28.3	-22 35	8.5	9.7	K2	5	..	39950b	90	3331	28.7	-21 54	8.5	9.1	Fo	7	..	39950b
41	7137	28.3	-43 11	7.9	8.4	A2	6	..	41420b	91	3169	28.7	-22 54	8.3	8.8	Ko	7	..	39950b
42	7079	28.3	-45 27	9.6	9.9	F5	2	..	41420b	92	9809	28.7	-25 1	12.0	11.4	Ko	1	..	39950b
43	2402	28.3	-61 53	8.6	9.5	Go	3	..	38798b	93	7175	28.7	-40 2	5.50	5.56	A2	..	2,10	56,129
44	2094	28.3	-63 6	8.6	8.5	B5	5	..	38798b	94	7139	28.7	-43 36	9.4	9.6	Ao	3	..	41420b
45	1674	28.3	-65 4	9.13	9.6	Ko	2	..	38798b	95	2096	28.7	-62 33	9.3	9.3	B8	2	..	38798b
46	724	28.4	+65 48	7.22	7.72	F8	7	3,7	37554i	96	1522	28.7	-68 43	9.4	9.4	A	1	..	38923b
47	2618	28.4	+20 15	7.22	8.29	K2	5	..	38229i	97	1392	28.7	-70 21	8.2	9.2	Ko	2	..	38923b
48	3190	28.4	-8 35	8.9	9.7	G5	3	..	41240b	98	359	28.8	+79 54	9.7	10.7	Ko	1	..	37465i
49	3165	28.4	-22 56	10.5	10.1	G5	2	..	39950b	99	3296	28.8	-19 20	9.8	10.1	Go	3	..	39947b
50	8747	28.4	-25 32	11.1	10.8	F8	3	..	39950b	100	8633	28.8	-26 16	8.7	9.0	K2	4	..	40312b

THE HENRY DRAPER CATALOGUE.

100500

11^h 28^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8941	28.8	-28 49	9.3	10.5	A5	2	..	40312b	51	3455	29.2	-12 19	8.1	8.6	F8	6	..	21155b
2	9179	28.8	-30 6	8.30	8.2	F8	5	..	41232b	52	3399	29.2	-13 28	9.3	10.1	G5	2	..	21155b
3	9311	28.8	-30 32	9.1	10.6	K5	2	..	40312b	53	9184	29.2	-29 58	10.4	9.7	F8	3	..	40312b
4	7084	28.8	-45 45	8.6	9.3	Go	5	..	41420b	54	7814	29.2	-33 20	8.6	10.3	Ko	1	..	41232b
5	4665	28.8	-52 52	9.5	10.1	Go	1	..	38406b	55	6618	29.2	-48 16	8.2	8.1	G5	4	..	13033b
6	4619	28.8	-53 32	9.7	10.1	F5	1	..	38406b	56	5808	29.2	-51 56	10.2	10.3	Ko	1	..	38406b
7	3053	28.8	-60 13	8.88	8.4	B9	5	..	38828b	57	5807	29.2	-52 2	9.8	9.8	Ko	2	..	38406b
8	1609	28.8	-66 30	7.7	8.7	Ko	6	..	38798b	58	4673	29.2	-52 35	9.2	9.5	Fo	3	..	38406b
9	2348	28.9	+15 27	8.5	9.3	G5	2	..	38357i	59	4622	29.2	-53 30	9.0	9.2	G5	3	..	38406b
10	2465	28.9	+ 6 29	9.3	9.8	F8	1	..	13731b	60	1558	29.2	-70 2	9.31	9.5	K5	1	..	38923b
11	8174	28.9	-32 14	9.0	8.8	Ao	3	..	41232b	61	1249	29.3	+61 14	9.2	10.0	G5	2	..	38285i
12	7200	28.9	-38 21	8.9	10.5	Ko	1	..	41415b	62	1574	29.3	+52 32	8.2	9.0	G5	3	..	38321i
13	7086	28.9	-45 58	8.4	8.2	A2	6	..	41420b	63	2521	29.3	+ 3 37	5.81	6.23	F5	9	..	11330b
14	4611	28.9	-54 32	9.9	9.9	Ao	1	..	38406b	64	3373	29.3	- 2 57	9.1	9.7	Go	1	..	19394b
15	4613	28.9	-54 35	8.9	10.3	K2	1	..	38406b	65	3096	29.3	- 4 58	6.70	6.76	A2	4	1.9-	19178b
16	1524	28.9	-68 17	8.7	8.5	B3	3	..	38923b	66	3349	29.3	-14 57	8.1	8.6	F8	4	..	41225b
17	2375	29.0	+22 35	8.4	9.5	K2	2	..	38229i	67	3170	29.3	-22 21	10.7	10.3	F8	2	..	39950b
18	2372	29.0	+11 35	6.46	6.52	A2	9	..	38357i	68	10057	29.3	-24 1	11.1	10.6	Ko	1	..	39950b
19	3140	29.0	- 3 37	8.7	9.3	Go	4	..	19394b	69	7183	29.3	-39 23	7.8	9.7	K5	2	..	41415b
20	3397	29.0	-14 6	8.7	9.7	Ko	2	..	21155b	70	7181	29.3	-46 24	9.1	9.3	Ao	4	..	13033b
21	3411	29.0	-17 29	10.0	10.8	G5	1	..	39947b	71	5814	29.3	-51 52	10.0	10.0	Go	2	..	38406b
22	3333	29.0	-21 44	10.2	11.4	K5	1	..	39950b	72	4618	29.3	-54 47	9.8	9.9	A3	3	..	38406b
23	9092	29.0	-31 22	9.6	10.6	K2	2	..	40312b	73	447	29.4	+74 46	9.07	10.07	Ko	3	..	4907m
24	6800	29.0	-40 44	9.2	9.4	F5	2	..	41415b	74	576	29.4	+71 21	8.8	9.6	G5	4	..	37554i
25	6801	29.0	-41 1	8.9	10.0	Ko	2	..	41420b	75	856	29.4	+64 22	9.1	9.9	G5	2	..	37718i
26	6283	29.0	-49 53	8.4	8.0	F5	5	..	13033b	76	1885	29.4	+47 9	9.7	10.5	G5	2	..	37726i
27	4668	29.0	-52 49	9.5	9.8	F2	2	..	38406b	77	2346	29.4	+12 2	9.3	10.3	Ko	1	..	38357i
28	4596	29.0	-57 5	8.1	7.7	Ao	6	0.2	38957b	78	3400	29.4	-13 16	8.3	9.3	Ko	5	..	21155b
29	2100	29.0	-62 24	9.5	9.5	Ao	2	..	38798b	79	3280	29.4	-16 33	9.2	9.8	Go	4	..	39947b
30	1919	29.0	-63 20	9.0	9.0	B8	2	..	38798b	80	3415	29.4	-17 29	10.0	10.6	Go	1	..	39947b
31	687	29.0	-77 58	9.1	10.2	K2	1	..	21530b	81	3171	29.4	-23 9	9.6	9.5	A3	5	..	39950b
32	464	29.1	+73 57	8.0	8.4	F5	5	0.7	37742i	82	9821	29.4	-24 46	9.6	10.8	K2	3	..	39950b
33	707	29.1	+66 51	8.7	9.5	G5	1	..	37554i	83	8755	29.4	-25 32	10.4	10.5	F5	3	..	39950b
34	855	29.1	+64 11	8.6	9.2	Go	2	..	38285i	84	8177	29.4	-27 37	9.1	9.6	Ko	4	..	40312b
35	2349	29.1	+15 15	8.6	9.4	G5	3	..	38357i	85	9186	29.4	-30 3	9.85	10.6	Go	2	..	40312b
36	3192	29.1	- 8 32	9.1	9.9	G5	1	..	41240b	86	7293	29.4	-35 39	7.8	8.5	K2	5	..	41415b
37	3297	29.1	-15 30	7.21	8.28	K2	5	..	41225b	87	6807	29.4	-40 36	7.4	8.2	Ao	7	..	41415b
38	3298	29.1	-15 51	8.7	9.0	Fo	4	..	41225b	88	6620	29.4	-48 11	9.4	9.5	Go	2	..	38416b
39	3413	29.1	-18 13	9.6	10.6	Ko	1	..	39947b	89	6291	29.4	-49 29	9.2	9.5	Ko	2	..	13033b
40	6804	29.1	-40 25	9.2	9.8	Ko	1	..	41415b	90	6135	29.4	-50 39	10.0	9.3	A2	4	..	38406b
41	4671	29.1	-52 47	8.5	8.9	G5	5	..	38406b	91	3712	29.4	-58 34	9.0	9.2	Ao	3	..	39857b
42	4615	29.1	-54 19	10.0	10.0	Ao	2	..	38406b	92	3713	29.4	-59 0	9.1	9.5	Go	2	..	21695b
43	4614	29.1	-54 59	10.2	10.2	Ao	2	..	38406b	93	1676	29.4	-64 56	9.1	9.9	G5	1	..	38798b
44	3058	29.1	-60 20	8.6	9.2	Ko	3	..	38828b	94	1683	29.4	-65 35	9.6	9.6	Ao	2	..	38798b
45	1681	29.1	-65 42	9.0	9.6	Go	2	..	38798b	95	1393	29.4	-70 51	8.4	9.4	Ko	1	..	38923b
46	1557	29.1	-69 38	6.66	6.3	B9	8	..	38923b	96	708	29.5	+67 45	9.1	9.2	A3	2	..	37554i
47	1264	29.1	-72 7	9.7	9.7	Ao	1	..	39198b	97	2068	29.5	+49 38	8.87	9.87	Ko	1	..	38648i
48	2067	29.2	+49 4	8.8	9.4	G	2	..	37726i	98	2162	29.5	+32 44	8.2	8.3	A2	2	..	38401i
49	2361	29.2	+23 26	8.2	8.3	A2	3	..	37505i	99	2369	29.5	+23 53	8.6	9.6	Ko	1	..	37505i
50	2496	29.2	+ 4 40	9.05	10.05	Ko	3	..	13731b	100	2374	29.5	+17 21	5.76	5.59	B3	..	0.8	56.88

ANNALS OF HARVARD COLLEGE OBSERVATORY.

100600

11^h 29^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3141	29.5	- 3 45	9.8	10.3	F8	1	..	19394b	51	7105	29.8	-45 22	8.9	9.3	A3	4	..	41420b
2	3456	29.5	-12 37	9.6	10.4	G5	2	..	21155b	52	1921	29.8	-63 32	9.9	9.9	A0	1	..	38798b
3	3450	29.5	-21 14	9.6	10.7	Go	3	..	39950b	53	448	29.9	+75 45	10.0	10.4	F5	2	..	4907m
4	8178	29.5	-27 44	7.9	7.9	F5	8	..	40312b	54	2198	29.9	+35 57	8.4	8.8	F5	2	..	38401i
5	9319	29.5	-31 0	9.9	10.6	Fo	2	..	40312b	55	2331	29.9	+20 59	6.44	7.44	Ko	8	..	38229i
6	7820	29.5	-33 40	8.1	10.0	K2	3	..	41232b	56	2621	29.9	+20 9	9.2	10.0	G5	1	..	38229i
7	7189	29.5	-46 25	9.1	9.9	G5	2	..	13033b	57	2429	29.9	+13 42	8.7	8.8	A5	2	..	38357i
8	6952	29.5	-47 59	9.0	10.5	Ko	3	..	38416b	58	2428	29.9	+12 53	9.5	10.3	G5	2	..	38357i
9	6621	29.5	-48 25	8.3	8.9	K5	2	..	13033b	59	3144	29.9	- 3 48	6.58	7.58	Ko	10	..	19394b
10	4628	29.5	-53 50	9.7	9.8	A2	1	..	38406b	60	3129	29.9	-11 32	7.39	8.39	Ko	8	..	21155b
11	4627	29.5	-54 0	8.4	9.5	Ma	4	..	38406b	61	9106	29.9	-31 22	10.1	10.0	Ko	2	..	40312b
12	4624	29.5	-54 22	10.3	10.3	A0	2	..	38406b	62	6142	29.9	-50 52	10.0	9.6	A0	2	..	38406b
13	3717	29.5	-59 8	7.9	7.4	F5	2	..	43030b	63	4682	29.9	-52 28	8.6	8.7	A0	6	..	38406b
14	2412	29.5	-61 8	9.5	9.5	B8	2	..	38798b	64	4819	29.9	-57 33	8.5	8.3	A0	6	..	38957b
15	1473	29.6	+55 20	5.76	6.54	G5	8	0.9	38321i	65	3720	29.9	-58 36	9.2	9.2	A0	2	..	38957b
16	2107	29.6	+44 10	8.8	9.6	G5	2	..	37726i	66	1923	29.9	-63 24	8.3	8.4	A5	4	..	38828b
17	2347	29.6	+12 23	9.3	10.5	K5	1	..	38357i	67	1450	30.0	+54 8	7.90	8.68	G5	3	..	38321i
18	2449	29.6	+ 2 3	9.3	9.8	F8	1	..	11330b	68	2522	30.0	+ 3 24	10.0	10.3	F2	1	..	11330b
19	3098	29.6	- 5 2	9.3	10.3	Ko	3	..	41240b	69	9825	30.0	-25 1	10.00	10.5	A5	4	..	39950b
20	3350	29.6	-15 1	9.1	9.5	F5	4	3.3	21155b	70	9194	30.0	-29 28	7.28	8.2	Ko	7	..	40312b
21	3298	29.6	-19 45	9.3	10.6	Ko	3	..	39947b	71	7107	30.0	-45 54	7.7	9.3	K2	3	..	41420b
22	8179	29.6	-27 49	9.3	9.1	G5	4	..	40312b	72	5826	30.0	-51 43	9.4	9.0	A5	3	..	38406b
23	8179	29.6	-32 18	6.14	6.8	G5	9	R	41232b	73	4637	30.0	-53 42	4.82	4.77	B8	..	R	28,206
24	7543	29.6	-34 36	8.6	10.0	G5	3	..	41232b	74	4636	30.0	-54 6	8.6	9.0	B9	6	..	38406b
25	7209	29.6	-38 14	8.9	10.0	K5	2	..	41415b	75	4604	30.0	-56 36	7.4	8.9	Ko	4	..	38957b
26	6622	29.6	-42 6	9.2	9.8	Ko	2	..	41420b	76	867	30.0	-73 56	10.1	10.1	A0	2	..	39198b
27	7082	29.6	-42 41	8.2	9.4	F8	4	..	41420b	77	676	30.0	-76 27	10.4	10.4	A0	2	..	39198b
28	227	29.6	-86 26	9.3	10.5	K5	1	..	22238b	78	1388	30.1	+58 46	8.0	9.1	K2	4	2.4	38321i
29	2540	29.7	- 1 56	7.7	8.7	Ko	5	..	19394b	79	2264	30.1	+35 4	8.6	8.6	A0	2	..	38401i
30	3099	29.7	- 4 24	8.3	8.3	A0	2	0.9	19178b	80	2430	30.1	+13 15	8.7	9.7	Ko	3	..	38357i
31	3128	29.7	-11 27	9.2	9.7	F8	2	..	21155b	81	3282	30.1	-16 54	9.8	10.2	F5	2	..	39947b
32	3352	29.7	-14 16	10.0	10.3	F	2	..	21155b	82	3416	30.1	-17 55	9.8	10.2	F5	2	..	39947b
33	3172	29.7	-23 3	9.3	10.0	Ma	3	..	39950b	83	3301	30.1	-19 50	9.6	10.3	Ko	3	..	39947b
34	8759	29.7	-25 13	10.6	10.5	G5	3	..	39950b	84	3337	30.1	-21 21	9.6	10.7	K5	2	..	39950b
35	6138	29.7	-50 51	10.2	9.8	A2	2	..	38406b	85	8184	30.1	-27 45	10.6	10.5	Ko	1	..	40312b
36	4452	29.7	-55 9	9.3	9.7	F5	2	..	38406b	86	9322	30.1	-30 10	7.26	7.9	Fo	7	..	41232b
37	4603	29.7	-57 4	8.0	8.7	Ko	3	..	38957b	87	7270	30.1	-37 6	9.2	10.3	G	1	..	41415b
38	1677	29.7	-64 51	7.13	7.0	A0	10	..	38798b	88	7212	30.1	-38 31	9.5	10.0	Go	1	..	41415b
39	369	29.8	+79 3	9.7	10.3	Go	2	..	37465i	89	7086	30.1	-42 44	8.6	8.8	A0	6	..	41420b
40	669	29.8	+70 8	7.49	8.27	G5	3	..	37554i	90	7154	30.1	-43 44	9.4	10.5	G5	1	..	41420b
41	838	29.8	+64 52	8.65	9.15	F8	2	..	38285i	91	5827	30.1	-51 29	9.2	9.0	B9	4	..	38406b
42	2220	29.8	+42 11	8.6	9.4	G5	2	..	37726i	92	5828	30.1	-51 54	8.5	8.6	A0	6	..	38406b
43	2279	29.8	+31 3	7.42	8.42	Ko	3	..	38401i	93	4825	30.1	-57 43	8.6	9.0	F2	2	..	38957b
44	2459	29.8	+ 6 50	9.0	9.4	F5	3	..	13731b	94	3726	30.1	-58 24	8.3	9.8	K5	2	..	38957b
45	2541	29.8	- 1 41	8.1	9.5	Ma	3	..	19394b	95	465	30.1	-82 56	8.4	9.2	G5	4	0.6	13466b
46	3255	29.8	- 7 23	9.1	9.9	G5	2	..	41240b	96	670	30.2	+69 53	5.36	6.36	Ko	..	5.8	814c
47	3281	29.8	-16 35	10.0	10.8	G5	2	..	39947b	97	1451	30.2	+54 27	8.7	8.8	A2	3	..	38321i
48	3173	29.8	-23 1	8.9	8.7	F5	8	..	39950b	98	2265	30.2	+35 25	10.4	11.8	Mcp	..	R	M
49	8181	29.8	-27 51	8.1	8.4	Ko	6	..	40312b	99	2526	30.2	+ 8 27	9.3	10.1	G5	2	..	13731b
50	9105	29.8	-31 54	9.6	9.1	F5	2	..	41232b	100	2460	30.2	+ 7 44	9.5	10.5	Ko	2	..	13731b

THE HENRY DRAPER CATALOGUE.

100700

11^h 30^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	3315	30.2	- 5 57	8.8	9.9	K2	3	..	41240b	51	6150	30.5	-50 16	9.54	9.3	Ao	3	..	38406b
2	3197	30.2	- 8 43	8.5	9.3	G5	5	..	21155b	52	2419	30.5	-62 4	9.3	10.1	G5	1	..	38798b
3	3296	30.2	-11 10	9.6	10.7	K2	1	..	21155b	53	1766	30.5	-67 54	8.3	8.3	Ao	5	..	38923b
4	3402	30.2	-13 30	10.5	10.5	Ao	1	..	21155b	54	2235	30.6	+26 33	8.8	9.8	Ko	2	..	38311i
5	3285	30.2	-16 45	10.5	11.5	Ko	1	..	39947b	55	3406	30.6	-13 55	8.8	9.8	Ko	3	..	21155b
6	3417	30.2	-18 3	9.3	9.8	F8	3	..	39947b	56	9328	30.6	-30 58	10.8	9.7	A3	3	..	40312b
7	3302	30.2	-20 0	8.1	8.8	F5	6	..	41225b	57	9327	30.6	-31 4	11.1	10.3	A	1	..	40312b
8	6630	30.2	-48 35	5.57	7.4	Ko	..	5,10	56,129	58	5833	30.6	-51 51	10.2	9.6	F5	1	..	38406b
9	6146	30.2	-50 22	10.5	9.5	Ao	2	..	38406b	59	2420	30.6	-61 37	9.8	9.8	Ao	1	..	38798b
10	5829	30.2	-51 50	8.9	8.9	A3	5	R	38406b	60	1768	30.6	-67 36	9.0	9.0	Ao	3	..	38923b
11	4635	30.2	-54 37	9.3	10.1	G5	1	..	38406b	61	2622	30.7	+20 40	8.9	9.4	F8	2	..	38229i
12	3727	30.2	-58 35	8.8	8.9	A5	3	..	38957b	62	2498	30.7	+ 4 30	9.3	9.6	F2	3	..	13731b
13	3069	30.2	-60 14	7.44	9.0	Mb	3	..	38828b	63	2586	30.7	+ 0 45	8.54	9.54	Ko	1	..	11330b
14	1765	30.2	-68 2	8.2	8.2	Ao	4	..	38923b	64	3407	30.7	-14 2	8.7	..	Ro	3	..	21155b
15	637	30.2	-79 42	7.9	8.0	A2	4	..	13466b	65	3355	30.7	-15 15	9.06	10.13	K2	2	..	41225b
16	449	30.3	+75 22	9.7	10.2	F8	4	2,2	4907m	66	3418	30.7	-17 23	9.2	10.6	Mb	4	..	39947b
17	2376	30.3	+11 44	6.69	7.69	Ko	7	0,9	38357i	67	3457	30.7	-20 20	10.2	11.1	Ko	1	..	39950b
18	3403	30.3	-13 16	9.6	10.6	Ko	1	..	21155b	68	8766	30.7	-25 26	9.1	10.5	G5	3	..	39950b
19	3454	30.3	-20 17	10.0	10.8	F8	2	..	39950b	69	7350	30.7	-37 37	9.8	9.7	Fo	2	..	41415b
20	10066	30.3	-23 17	9.4	9.1	A3	7	..	39950b	70	7157	30.7	-43 40	9.1	10.5	Ko	2	..	41420b
21	7555	30.3	-35 3	6.98	7.2	A2	10	..	41415b	71	6307	30.7	-49 16	10.0	9.5	A5	2	..	13033b
22	7345	30.3	-37 15	10.4	10.3	Ao	1	..	41415b	72	6154	30.7	-50 44	7.6	8.9	K2	5	..	38406b
23	4690	30.3	-52 11	9.6	9.6	Ao	2	..	38406b	73	3075	30.7	-60 20	6.66	6.9	Fo	4	..	43030b
24	4691	30.3	-52 41	7.4	8.3	G5	7	..	38406b	74	2422	30.7	-61 57	10.1	10.1	Ao	1	..	38798b
25	4692	30.3	-52 42	9.3	9.3	A	1	..	38406b	75	2021	30.8	+28 28	8.4	8.9	F8	2	..	37505i
26	2510	30.4	+18 26	7.26	8.26	Ko	3	..	38229i	76	2463	30.8	+ 7 20	8.5	9.5	Ko	5	..	13731b
27	2310	30.4	+10 8	8.6	8.9	F2	6	..	13731b	77	3147	30.8	- 4 12	8.7	9.7	Ko	5	..	19394b
28	2461	30.4	+ 7 5	8.7	9.3	Go	5	..	13731b	78	10072	30.8	-23 17	10.8	10.5	Go	2	..	39950b
29	3303	30.4	-15 33	8.7	9.7	Ko	3	..	41225b	79	8650	30.8	-26 36	8.5	9.6	F8	5	..	40312b
30	3175	30.4	-22 58	9.1	9.6	Ao	6	..	39950b	80	8958	30.8	-28 34	10.1	11.6	Ko	1	..	40312b
31	10068	30.4	-24 0	9.3	9.6	F8	4	..	39950b	81	9205	30.8	-29 14	9.9	9.7	F8	2	..	40312b
32	8765	30.4	-25 21	10.8	10.7	Go	3	..	39950b	82	7563	30.8	-34 14	8.0	9.4	K2	3	..	41232b
33	7199	30.4	-46 49	5.63	7.1	Ma	..	0,8 R	56,129	83	7562	30.8	-34 51	8.2	10.0	K5	2	..	41232b
34	4640	30.4	-54 5	10.0	10.0	Ao	2	..	38406b	84	7111	30.8	-45 38	8.8	9.3	F2	4	..	41420b
35	4468	30.4	-55 34	7.1	8.3	Ko	3	..	43030b	85	7203	30.8	-46 37	8.3	9.6	Ma	4	..	19003b
36	2418	30.4	-61 35	9.1	9.5	Ao	2	..	38798b	86	6158	30.8	-50 10	8.14	8.6	A2	7	..	38406b
37	2119	30.4	-62 32	9.6	9.6	B8	1	..	38798b	87	5835	30.8	-51 23	9.0	8.9	A2	6	..	38406b
38	709	30.5	+66 54	8.1	8.5	F5	5	0,4	37554i	88	5836	30.8	-51 55	8.8	9.2	Go	6	..	38406b
39	2371	30.5	+24 14	8.8	9.2	F5	2	..	37505i	89	4643	30.8	-55 6	9.79	9.8	F8	2	..	38406b
40	2377	30.5	+11 28	6.45	6.51	A2	8	..	38357i	90	3080	30.8	-60 11	8.54	9.0	Ko	2	..	38828b
41	2542	30.5	- 2 4	8.9	9.2	Fo	4	..	19394b	91	2121	30.8	-62 54	8.7	9.9	K5	2	..	38798b
42	3132	30.5	-11 51	6.99	7.41	F5	9	..	21155b	92	1611	30.8	-66 22	9.7	9.8	A2	2	R	38923b
43	3405	30.5	-14 8	9.6	10.7	K2	2	..	21155b	93	1612	30.8	-66 22	9.5	9.6	..	..	..	..
44	3353	30.5	-14 35	9.1	9.6	F8	3	..	21155b	94	1141	30.8	-72 25	9.1	10.3	K5	1	..	39198b
45	3203	30.5	-18 59	9.2	10.4	K5	2	..	39947b	95	450	30.9	+75 40	8.42	9.60	K5	5	..	4907m
46	3304	30.5	-19 58	9.8	10.1	Ko	3	..	39950b	96	2281	30.9	+31 16	8.6	9.4	G5	1	..	38401i
47	3456	30.5	-21 7	9.1	10.7	Ko	3	..	39950b	97	2433	30.9	+13 25	8.7	9.5	G5	3	..	38357i
48	9832	30.5	-24 12	9.9	10.5	A3	4	..	39950b	98	2516	30.9	+ 9 39	9.5	9.9	F5	2	..	13731b
49	7218	30.5	-38 15	8.9	10.0	K2	2	..	41415b	99	2528	30.9	+ 7 53	9.3	9.6	F2	4	..	13731b
50	7433	30.5	-44 51	8.5	9.9	Ko	2	..	41420b	100	3317	30.9	- 5 32	9.1	10.1	Ko	1	..	41240b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

100800

11^h 30^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	3357	30.9	-14 45	9.3	9.8	F8	3	..	21155b	51	7288	31.3	-36 37	9.6	10.0	Ao	1	..	41415b
2	3288	30.9	-17 5	10.2	11.2	Ko	1	..	39947b	52	7286	31.3	-37 6	10.4	10.0	Ao	1	..	41415b
3	3306	30.9	-19 24	10.0	10.3	Go	2	..	39947b	53	7102	31.3	-42 58	8.3	10.5	K5	1	..	41420b
4	3338	30.9	-21 46	9.6	9.6	A5	4	..	39950b	54	6974	31.3	-47 40	8.0	8.8	Ko	4	..	19003b
5	9330	30.9	-30 29	9.9	9.7	Go	3	..	40312b	55	4706	31.3	-52 44	8.9	9.0	A2	3	..	38406b
6	7564	30.9	-34 8	10.0	11.7	Go	2	..	41232b	56	3102	31.3	-61 3	8.5	8.3	B	6	..	38798b
7	4839	30.9	-57 40	8.3	8.6	A2	3	..	38957b	57	1560	31.3	-69 39	7.7	8.5	G5	4	..	38923b
8	2022	31.0	+28 20	5.82	5.90	A3	10	..	37505i	58	392	31.4	+78 9	6.71	7.89	K5	6	..	37465i
9	2352	31.0	+15 15	8.3	8.3	Ao	4	..	38357i	59	2518	31.4	+9 7	9.5	10.0	F8	2	..	13731b
10	2809	31.0	-0 8	9.35	10.35	Ko	2	..	11330b	60	3378	31.4	-3 2	9.2	10.2	Ko	2	..	19394b
11	3419	31.0	-18 9	9.8	11.0	K5	1	..	39947b	61	3325	31.4	-9 53	8.3	8.7	F5	7	..	21155b
12	3204	31.0	-19 6	10.0	11.1	K2	2	..	39947b	62	3409	31.4	-13 21	9.3	9.9	Go	2	..	21155b
13	3339	31.0	-21 56	8.7	9.0	F8	6	..	39950b	63	3420	31.4	-17 42	9.3	10.3	Ko	2	..	39947b
14	10073	31.0	-24 7	9.9	9.9	A2	3	..	39950b	64	5848	31.4	-51 59	10.9	10.1	Go	1	..	38406b
15	9839	31.0	-24 24	10.8	11.4	Ko	2	..	39950b	65	4644	31.4	-53 14	8.9	8.4	A2	3	..	38406b
16	6822	31.0	-40 58	10.2	10.0	Go	1	..	41420b	66	4482	31.4	-55 17	9.50	9.3	B9	4	..	38406b
17	6159	31.0	-50 42	9.8	9.6	A2	2	..	38406b	67	1689	31.4	-65 32	8.5	8.5	B9	5	..	38798b
18	4702	31.0	-52 24	7.9	8.3	G5	7	..	38406b	68	696	31.4	-77 25	8.8	8.9	A3	4	..	21530b
19	828	31.0	-74 49	9.8	9.8	Ao	2	..	39198b	69	2381	31.5	+22 1	9.7	10.5	G5	2	..	38229i
20	1738	31.1	+46 14	9.5	10.1	G	1	..	37726i	70	2352	31.5	+12 44	8.1	8.6	F8	5	..	38357i
21	2039	31.1	+27 31	9.0	9.8	G5	3	..	38311i	71	2353	31.5	+12 14	8.7	9.1	F5	2	..	38357i
22	2501	31.1	+3 51	7.20	7.98	G5	6	..	11330b	72	2470	31.5	+6 40	7.04	8.04	Ko	10	..	13731b
23	3458	31.1	-20 57	10.5	11.0	Go	1	..	39950b	73	3290	31.5	-16 18	6.99	7.55	Go	8	..	41225b
24	8963	31.1	-28 37	9.9	11.6	Ko	1	..	40312b	74	8660	31.5	-26 31	10.8	10.7	G5	1	..	40312b
25	7205	31.1	-47 5	5.42	6.2	Fo	..	R	56,129	75	8196	31.5	-27 18	9.4	9.3	F8	5	..	40312b
26	3090	31.1	-60 44	6.2	6.4	Aop	..	0.4 R	56,129	76	6980	31.5	-47 26	10.5	9.3	Ao	2	..	19003b
27	2129	31.1	-63 5	9.9	9.9	Ao	2	..	38798b	77	4711	31.5	-52 57	9.0	9.6	Ko	1	..	38406b
28	1772	31.1	-67 22	8.7	8.7	B8	3	..	38923b	78	4853	31.5	-57 32	8.4	8.6	Ao	4	..	38957b
29	465	31.2	+74 21	10.5	11.3	G5	1	..	4907m	79	2135	31.5	-62 44	9.8	9.8	B9	2	..	38798b
30	466	31.2	+73 52	10.5	11.5	Ko	1	..	4907m	80	1527	31.5	-68 50	9.4	9.4	A	2	..	38923b
31	1529	31.2	+56 43	7.40	8.18	G5	5	..	38321i	81	1142	31.5	-72 15	9.0	9.5	F8	3	..	39198b
32	2589	31.2	+1 9	8.4	9.6	K5	1	..	11330b	82	578	31.6	+71 6	10.5	11.3	G5	2	..	37554i
33	3459	31.2	-21 3	10.2	10.8	F8	2	..	39950b	83	1842	31.6	+50 9	9.7	10.0	F2	2	..	38648i
34	3176	31.2	-22 18	9.8	10.3	G5	2	..	39950b	84	2225	31.6	+42 36	8.6	9.1	F8	3	..	37726i
35	8770	31.2	-25 12	9.15	9.6	F8	7	..	39950b	85	2333	31.6	+21 37	8.8	9.6	G5	1	..	38229i
36	6824	31.2	-40 58	8.7	9.5	G5	3	..	41420b	86	2479	31.6	+18 59	8.5	8.9	F5	2	..	38229i
37	7440	31.2	-44 59	8.78	9.9	K2	2	..	41420b	87	2519	31.6	+9 34	8.9	9.0	A3	5	..	13731b
38	6166	31.2	-50 11	7.79	8.6	Fo	7	..	38406b	88	3201	31.6	-8 45	7.32	7.32	Ao	9	..	21155b
39	4645	31.2	-54 12	9.7	9.8	A3	2	..	38406b	89	3202	31.6	-9 15	4.81	4.79	B9	..	R	56,88
40	3095	31.2	-61 0	8.5	8.3	B	6	..	38798b	90	3135	31.6	-11 49	9.3	9.7	F5	3	..	21155b
41	2127	31.2	-62 28	3.34	3.32	B9	..	1.7 R	28,206	91	9214	31.6	-29 17	9.1	10.6	Ko	2	..	40312b
42	1614	31.2	-67 1	9.3	9.3	Ao	2	..	38923b	92	9125	31.6	-31 27	9.4	10.6	K5	2	..	40312b
43	2394	31.3	+25 35	7.06	7.14	A3	8	..	37505i	93	8199	31.6	-33 1	5.87	7.2	Ko	10	..	41232b
44	2477	31.3	+19 9	9.3	9.6	Fo	1	..	38229i	94	7324	31.6	-35 34	6.88	7.4	Fo	9	..	41415b
45	3150	31.3	-4 9	9.3	10.4	K2	2	..	19394b	95	7228	31.6	-38 59	8.7	10.0	K5	1	..	41415b
46	3199	31.3	-8 24	9.1	10.3	K5	1	..	41240b	96	6646	31.6	-41 23	8.9	9.4	F5	4	..	41420b
47	3307	31.3	-20 6	9.48	11.1	K2	1	..	39950b	97	6317	31.6	-49 22	8.9	8.7	A2	5	..	13033b
48	3177	31.3	-23 5	9.3	10.2	Ko	3	..	39950b	98	4648	31.6	-53 42	8.6	9.2	Ko	3	..	38406b
49	8659	31.3	-26 12	8.7	9.3	K2	6	..	40312b	99	4650	31.6	-54 57	9.0	10.1	K5	1	..	38406b
50	7285	31.3	-36 30	7.8	8.9	Go	5	..	41415b	100	3635	31.6	-59 27	7.2	8.6	G5	4	..	38957b

THE HENRY DRAPER CATALOGUE.

100900

11^h 31^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1143	31.6	-72 17	6.52	8.5	Ko	7	..	40298b	51	8663	32.0	-26 22	9.4	10.7	Ko	1	..	40312b
2	742	31.6	-75 26	10.4	10.4	B9	1	..	39198b	52	8971	32.0	-28 16	10.1	10.3	A5	2	..	40312b
3	2410	31.7	+14 35	8.7	9.2	F8	3	..	38357i	53	8202	32.0	-32 26	6.44	7.2	F5	10	..	41232b
4	2379	31.7	+11 4	8.7	9.1	F5	5	..	13731b	54	7230	32.0	-38 24	6.98	7.5	Ao	9	..	41415b
5	3421	31.7	-17 36	9.8	11.0	K5	2	..	39947b	55	6986	32.0	-47 26	8.6	8.4	F8	4	..	19003b
6	3208	31.7	-18 25	9.2	9.8	Go	3	..	39947b	56	2440	32.0	-62 4	9.1	9.8	B9	2	..	38828b
7	3308	31.7	-19 58	9.6	11.0	K5	1	..	39950b	57	1397	32.0	-70 26	8.2	8.5	F2	5	..	38923b
8	10078	31.7	-23 53	7.15	8.0	K2	8	..	39950b	58	438	32.1	+76 52	10.2	11.0	G5	3	..	4907m
9	8200	31.7	-32 22	8.2	8.8	A2	5	..	41232b	59	467	32.1	+74 18	9.5	10.3	G5	3	..	4907m
10	7845	31.7	-34 6	7.55	8.1	F5	7	..	41232b	60	972	32.1	+63 15	7.32	7.66	F2	8	..	37718i
11	7291	31.7	-36 41	6.46	6.7	Ao	10	..	41415b	61	2396	32.1	+25 33	9.2	9.7	F8	1	..	37505i
12	7207	31.7	-39 58	9.0	9.4	Ko	2	..	41415b	62	3151	32.1	-4 2	8.5	9.7	K5	3	..	19394b
13	6829	31.7	-40 55	8.6	8.6	A2	6	..	41420b	63	3291	32.1	-17 11	10.0	10.6	Go	2	..	39947b
14	4488	31.7	-55 11	8.30	8.9	Ko	7	..	38406b	64	7579	32.1	-35 2	8.63	9.7	K5	2	..	41232b
15	3136	31.7	-60 54	8.6	8.6	B8	4	..	38798b	65	7231	32.1	-38 26	7.35	8.8	K2	4	..	41415b
16	1617	31.7	-66 16	9.1	9.1	B9	3	..	38923b	66	6653	32.1	-41 39	9.8	10.5	A	1	..	41420b
17	1677	31.8	+51 42	7.80	8.58	G5	2	..	38321i	67	3746	32.1	-58 24	9.1	9.2	A3	3	..	38957b
18	1739	31.8	+46 42	8.0	8.3	F2	6	..	37726i	68	3748	32.1	-58 48	9.0	9.0	B9	3	..	38957b
19	2210	31.8	+41 13	9.0	10.0	Ko	1	..	38656i	69	3168	32.1	-60 58	9.1	9.0	B5	4	..	38798b
20	2458	31.8	-0 16	4.47	5.47	Ko	..	R	56,88	70	1691	32.1	-65 38	9.0	9.0	Ao	3	..	38798b
21	3203	31.8	-8 22	8.7	9.7	Ko	1	..	41240b	71	652	32.2	+67 53	var.	var.	A2	2	R	37554i
22	3136	31.8	-11 48	9.3	10.1	G5	2	..	21155b	72	1943	32.2	+45 17	6.58	6.56	B9	8	..	37726i
23	3209	31.8	-18 43	9.1	10.1	Ko	3	..	39947b	73	2237	32.2	+26 21	8.2	9.0	G5	1	..	37505i
24	3309	31.8	-20 14	9.6	11.0	Ko	1	..	39950b	74	2465	32.2	+6 50	7.02	7.08	A2	7	..	11330b
25	3342	31.8	-21 27	9.6	11.1	Ko	1	..	39950b	75	2811	32.2	-0 1	7.9	8.9	Ko	5	..	11330b
26	7219	31.8	-46 51	9.6	10.0	A2	3	..	19003b	76	R	32.2	-26 17	10.3	11.1	G5	1	..	40312b
27	3741	31.8	-58 52	8.1	9.5	K5	2	..	38957b	77	8203	32.2	-27 26	9.9	9.1	G5	5	..	40312b
28	3638	31.8	-59 13	9.3	9.3	B9	2	..	38957b	78	8975	32.2	-28 29	9.7	9.9	F2	4	..	40312b
29	3140	31.8	-60 30	5.84	5.67	B3	..	0.6	28,206	79	7328	32.2	-35 59	9.6	10.0	A2	2	0.2	13157b
30	3152	31.8	-60 46	8.1	9.5	Ma	..	..	M	80	7232	32.2	-38 54	8.4	8.6	F8	3	..	41415b
31	1619	31.8	-66 11	9.6	9.6	Ao	2	..	38923b	81	7452	32.2	-44 58	10.2	9.9	A3	2	..	41420b
32	528	31.9	+73 27	9.0	10.0	Ko	5	2.3	4907m	82	6990	32.2	-47 49	8.8	8.8	Ao	5	..	19003b
33	1190	31.9	+62 44	7.47	8.82	Ma	5	0.4	37716i	83	6662	32.2	-48 17	9.8	9.5	Ao	2	..	19003b
34	3461	31.9	-20 25	7.93	8.3	Ko	7	..	39950b	84	6178	32.2	-50 22	9.2	9.0	Ao	4	..	38406b
35	3343	31.9	-22 6	9.6	10.7	Ko	2	..	39950b	85	6177	32.2	-50 42	9.0	9.6	Ma	1	..	38406b
36	8772	31.9	-25 37	10.1	10.2	A3	4	..	39950b	86	5859	32.2	-51 25	9.0	9.5	Ko	3	..	38406b
37	9131	31.9	-31 12	10.1	10.3	Ko	2	..	40312b	87	4716	32.2	-52 39	8.5	9.0	B9	4	..	38406b
38	9132	31.9	-31 55	9.1	9.1	Ko	4	0.2	40312b	88	3640	32.2	-59 21	8.4	8.6	B9	5	..	38957b
39	7293	31.9	-36 28	8.4	8.9	Ko	4	..	41415b	89	3175	32.2	-61 7	9.1	8.9	B8	4	..	38798b
40	4652	31.9	-54 36	8.7	9.0	A5	5	..	38406b	90	1531	32.2	-68 42	8.9	8.9	Ao	4	..	38923b
41	3742	31.9	-58 22	9.2	9.3	A5	3	..	38957b	91	379	32.3	+81 18	9.5	10.3	G5	2	..	37465i
42	3159	31.9	-60 20	7.70	7.4	B9	5	..	38957b	92	1393	32.3	+59 21	9.2	9.5	F	3	E	37718i
43	3155	31.9	-61 6	6.7	7.2	Bo	7	..	38798b	93	2238	32.3	+25 58	8.1	8.7	Go	4	..	37505i
44	1620	31.9	-66 34	9.1	10.3	K5	1	..	38923b	94	2503	32.3	+4 9	10.0	10.6	Go	1	..	11330b
45	529	32.0	+73 36	9.8	10.6	G5	3	..	4907m	95	2461	32.3	-0 56	8.5	8.9	F5	5	..	19394b
46	2200	32.0	+36 46	8.3	9.1	G5	2	..	38401i	96	3383	32.3	-2 20	8.1	9.3	K5	2	..	19394b
47	2023	32.0	+28 19	8.2	9.2	Ko	3	..	37505i	97	3320	32.3	-5 43	9.3	9.7	F5	1	..	41240b
48	2511	32.0	+5 31	8.5	9.5	Ko	5	..	13731b	98	3138	32.3	-11 47	7.19	8.19	Ko	6	..	21155b
49	3179	32.0	-22 23	6.67	7.7	Ko	9	..	39950b	99	3310	32.3	-19 47	9.6	10.7	Fo	3	..	39950b
50	8773	32.0	-25 46	9.9	10.7	F8	3	..	39950b	100	8976	32.3	-28 44	9.6	10.7	Ko	2	..	40312b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

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11^h 32^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	° ' "									m.	° ' "						
1	7580	32.3	-34 30	8.9	9.5	K5	2	..	41232b	51	7230	32.6	-46 23	9.6	10.2	Ko	2	..	19003b
2	6841	32.3	-40 56	8.2	9.2	K2	4	..	41420b	52	5864	32.6	-51 8	9.4	9.0	A2	4	..	38406b
3	7223	32.3	-46 50	9.1	9.3	F5	4	..	19003b	53	4658	32.6	-53 11	7.9	8.9	Ko	5	..	38406b
4	6332	32.3	-49 8	9.4	9.2	F5	2	..	13033b	54	4870	32.6	-57 57	8.9	9.2	Ao	2	..	38957b
5	6179	32.3	-50 49	10.5	9.8	A3	1	..	38406b	55	1680	32.6	-64 30	9.3	9.3	Ao	3	..	38798b
6	4658	32.3	-54 47	9.1	9.8	Ko	1	..	38406b	56	1624	32.6	-66 51	9.0	9.0	Ao	4	..	38923b
7	3178	32.3	-60 37	7.9	9.0	Ma	4	0.3	38828b	57	1846	32.7	+50 11	8.7	9.7	Ko	1	..	38648i
8	2142	32.3	-62 50	9.2	9.0	B3	3	..	38828b	58	2239	32.7	+25 57	8.3	9.1	G5	2	..	37505i
9	1023	32.3	-67 5	9.1	9.1	Ao	2	..	38923b	59	2384	32.7	+22 18	7.78	7.86	A3	6	..	38229i
10	1144	32.3	-72 20	9.2	9.2	Ao	4	..	39198b	60	2277	32.7	+16 20	8.9	8.9	Ao	2	..	38229i
11	1145	32.3	-72 48	7.9	8.0	A3	6	..	40298b	61	3263	32.7	-7 36	8.7	9.9	K5	2	..	41240b
12	393	32.4	+78 2	9.2	9.7	F8	2	..	37465i	62	3412	32.7	-14 7	8.7	9.2	F8	3	..	21155b
13	1679	32.4	+51 10	5.99	6.99	Ko	7	..	38321i	63	8980	32.7	-28 17	9.9	10.2	G5	3	..	40312b
14	2444	32.4	+40 42	9.3	10.1	G5	1	..	38656i	64	9229	32.7	-29 45	10.4	10.9	Ko	1	..	40312b
15	2024	32.4	+27 59	8.3	9.3	Ko	3	..	38311i	65	7232	32.7	-46 9	8.6	8.8	B5	5	..	19003b
16	2812	32.4	+0 1	8.7	9.9	K5	1	..	11330b	66	7231	32.7	-46 45	8.6	8.2	Fo	7	..	19003b
17	3464	32.4	-20 55	9.1	10.0	Ko	4	..	39950b	67	6997	32.7	-47 11	5.45	7.3	K2	..	2, R	56, 129
18	8784	32.4	-25 55	9.3	9.7	Go	6	..	39950b	68	6186	32.7	-50 56	9.6	9.5	Ao	3	..	38406b
19	4655	32.4	-53 25	9.0	8.7	A2	4	..	38406b	69	3190	32.7	-60 10	8.04	8.9	Ko	3	..	38957b
20	4662	32.4	-55 2	9.06	8.9	A2	6	..	38406b	70	2147	32.7	-62 35	8.8	8.7	B5	3	..	38828b
21	3182	32.4	-60 44	5.10	6.8	Ko	..	0.5	28, 206	71	1625	32.7	-66 57	9.6	9.6	Ao	1	..	38923b
22	701	32.4	-77 27	8.9	9.7	G5	2	..	21530b	72	679	32.7	-76 8	8.9	10.0	K2	1	..	39198b
23	581	32.5	+71 3	9.7	10.3	Go	3	..	37554i	73	..	32.8	+74 53	..	..	Ko	1	..	4907m
24	1845	32.5	+50 21	8.0	8.4	F5	5	..	38648i	74	582	32.8	+71 17	9.5	10.3	G5	2	..	37554i
25	2383	32.5	+22 15	8.2	8.6	F5	3	..	38229i	75	857	32.8	+64 43	7.85	7.85	Ao	7	2, 4	37718i
26	2356	32.5	+15 42	8.9	9.7	G5	2	E	38357i	76	1192	32.8	+62 11	9.1	10.1	Ko	1	..	38285i
27	3152	32.5	-3 57	8.1	9.1	Ko	7	..	19394b	77	2628	32.8	+19 53	9.25	9.81	G	1	..	38229i
28	3181	32.5	-22 40	8.3	9.1	Ko	6	..	39950b	78	2436	32.8	+13 31	7.62	8.80	K5	4	..	38357i
29	7297	32.5	-36 10	7.52	8.5	F8	7	..	41415b	79	2462	32.8	-0 37	8.3	9.4	K2	4	..	19394b
30	7225	32.5	-46 32	9.1	10.0	K5	1	..	19003b	80	9349	32.8	-30 39	7.12	7.5	G5	7	..	41232b
31	7227	32.5	-46 36	9.6	10.5	Ko	1	..	19003b	81	4724	32.8	-52 29	9.7	9.8	A2	1	..	38406b
32	6182	32.5	-50 49	9.8	9.5	A5	3	..	38406b	82	4725	32.8	-52 49	9.0	8.7	Go	4	..	38406b
33	4643	32.5	-56 13	8.8	9.3	A2	2	..	38957b	83	4665	32.8	-54 52	9.3	9.3	Ao	4	..	38406b
34	2449	32.5	-61 14	9.3	9.3	B8	2	..	38798b	84	2151	32.8	-62 47	9.0	9.0	B8	1	..	38828b
35	2448	32.5	-61 55	7.7	9.8	K5	2	..	38828b	85	2150	32.8	-63 8	7.9	7.9	B8	4	..	38828b
36	1775	32.5	-68 2	9.2	9.2	B9	1	..	38923b	86	1681	32.8	-64 55	9.1	10.2	K2	1	..	38798b
37	1562	32.5	-69 9	9.2	9.2	B9	2	..	38923b	87	1626	32.8	-66 20	8.4	8.7	F2	5	..	38923b
38	530	32.6	+73 3	9.5	10.5	Ko	1	..	4907m	88	1536	32.8	-69 7	6.72	6.9	F5	7	..	38923b
39	653	32.6	+68 43	9.1	9.7	Go	3	..	37554i	89	874	32.8	-73 29	9.3	9.3	B9	4	..	39198b
40	1576	32.6	+52 37	9.1	9.9	G5	1	..	38321i	90	1394	32.9	+59 39	8.61	9.39	G5	3	E	37718i
41	2522	32.6	+8 49	8.3	9.3	Ko	4	..	13731b	91	2169	32.9	+32 27	7.13	7.47	F2	8	..	38401i
42	2504	32.6	+4 23	9.05	9.83	G5	2	..	11330b	92	2505	32.9	+4 11	8.35	9.35	Ko	3	..	11330b
43	3329	32.6	-10 14	9.36	10.54	K5	1	..	21155b	93	2464	32.9	-1 3	8.1	8.6	F8	7	..	19394b
44	3293	32.6	-16 23	8.5	8.5	Ao	3	..	41225b	94	3330	32.9	-9 17	8.3	8.7	F5	6	..	21155b
45	3465	32.6	-20 39	9.6	10.8	K5	3	..	39950b	95	8213	32.9	-27 42	7.96	9.6	Ma	6	..	40312b
46	3182	32.6	-23 7	9.3	10.8	K5	2	..	39950b	96	7340	32.9	-36 0	8.6	9.5	Ko	2	0, 2	13157b
47	7370	32.6	-37 26	9.6	9.7	Ao	1	..	41415b	97	7116	32.9	-43 0	9.6	10.5	Ao	2	..	41420b
48	7237	32.6	-38 48	6.89	8.6	Ma	5	..	41415b	98	6668	32.9	-48 22	9.4	9.5	Go	1	..	19003b
49	6660	32.6	-41 20	10.0	10.5	Ko	1	..	41420b	99	6344	32.9	-50 1	8.5	9.2	K5	2	..	13033b
50	6659	32.6	-41 52	9.3	9.8	F5	3	..	41420b	100	5871	32.9	-51 32	9.4	9.0	Fo	4	..	38406b

THE HENRY DRAPER CATALOGUE.

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11^h 32^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4500	32.9	-55 57	8.9	9.2	Ao	2	..	38957b	51	2242	33.3	+34 12	6.36	7.43	K2	7	..	38401i
2	3756	32.9	-58 42	9.5	9.5	Ao	2	..	38957b	52	2416	33.3	+14 29	9.3	10.3	Ko	2	..	38357i
3	3649	32.9	-59 48	7.30	7.3	B8	8	..	38957b	53	2532	33.3	+ 8 42	5.47	6.82	Mb	7	R	38357i
4	3196	32.9	-60 21	6.70	8.3	Mb	5	..	38957b	54	2546	33.3	- 1 53	6.25	7.25	Ko	10	..	19394b
5	3195	32.9	-60 56	6.7	6.9	B5	7	..	38828b	55	3215	33.3	-18 22	9.1	10.1	Ko	1	..	41225b
6	454	33.0	+75 37	9.32	9.82	F8	4	2,2	4907m	56	9860	33.3	-25 4	9.80	10.3	A2	3	..	39950b
7	2110	33.0	+44 10	5.52	5.80	Fo	10	..	37726i	57	8791	33.3	-25 44	9.6	10.2	Ko	4	..	39950b
8	2458	33.0	+39 18	8.2	8.2	Ao	5	..	38656i	58	7153	33.3	-45 11	7.28	7.6	Fo	8	..	41420b
9	2398	33.0	+25 1	8.6	8.9	F2	3	..	37505i	59	4729	33.3	-52 11	8.2	9.2	Ko	3	..	38406b
10	2385	33.0	+22 25	8.18	9.25	K2	2	..	38229i	60	4653	33.3	-56 36	8.8	9.2	Ao	4	..	38957b
11	2357	33.0	+15 7	9.3	10.7	Ma	..	..	M	61	4878	33.3	-58 4	8.9	8.9	B8	3	..	38957b
12	2523	33.0	+ 9 26	6.55	7.55	Ko	9	..	13731b	62	1629	33.3	-67 4	5.90	7.1	Ko	..	0,8	56,129
13	2454	33.0	+ 2 30	8.9	9.5	Go	2	..	11330b	63	2459	33.4	+39 12	8.6	9.7	K2	1	..	38656i
14	3308	33.0	-10 58	10.2	10.3	A3	1	..	21155b	64	2468	33.4	+ 7 3	8.7	9.9	K5	1	..	13731b
15	9855	33.0	-24 14	9.7	10.2	A5	4	..	39950b	65	2475	33.4	+ 6 19	8.5	9.3	G5	2	..	13731b
16	8675	33.0	-26 47	9.3	9.1	F2	7	..	40312b	66	3309	33.4	-10 23	8.71	9.89	K5	2	..	21155b
17	4727	33.0	-52 20	8.1	8.6	G5	7	..	38406b	67	9236	33.4	-29 45	10.1	9.7	F5	2	..	40312b
18	3758	33.0	-58 58	9.7	9.8	A3	1	..	38957b	68	9358	33.4	-31 5	10.8	10.6	Fo	2	..	40312b
19	3201	33.0	-60 25	7.44	7.4	B9	6	..	38957b	69	8212	33.4	-33 2	7.7	7.3	Ao	8	..	41232b
20	1193	33.1	+61 51	8.3	8.7	F5	5	..	37718i	70	7379	33.4	-37 55	9.0	10.0	K2	1	..	41415b
21	3295	33.1	-16 28	9.2	10.0	G5	1	..	41225b	71	6196	33.4	-51 1	9.0	9.3	Ko	4	..	38406b
22	3424	33.1	-17 39	7.20	7.20	Ao	8	..	41225b	72	4674	33.4	-54 45	9.9	10.0	A2	1	..	38406b
23	3344	33.1	-21 27	9.8	10.7	Go	3	..	39950b	73	2462	33.4	-61 46	9.0	9.0	B8	3	..	38828b
24	7862	33.1	-33 59	8.9	10.3	A3	2	..	41232b	74	1682	33.4	-65 6	7.23	7.1	B8	7	..	38828b
25	7301	33.1	-36 41	8.9	9.7	F8	2	..	41415b	75	704	33.4	-77 25	9.2	9.5	Fo	2	..	21530b
26	7302	33.1	-37 7	8.6	9.7	Go	2	..	41415b	76	469	33.5	+74 13	9.1	9.9	G5	4	..	4907m
27	6851	33.1	-40 29	9.3	10.0	Ko	2	..	41420b	77	1947	33.5	+45 40	6.34	6.90	Go	8	..	37726i
28	7237	33.1	-46 16	9.8	9.9	Ao	6	..	19003b	78	2460	33.5	+39 45	7.42	8.60	K5	5	..	38656i
29	5874	33.1	-51 48	10.5	9.5	Ao	2	..	38406b	79	2374	33.5	+23 53	7.58	8.58	Ko	4	..	38229i
30	4671	33.1	-54 42	10.0	10.0	Ao	1	..	38406b	80	2280	33.5	+15 58	8.4	9.5	K2	1	E	38357i
31	2154	33.1	-62 46	7.2	7.0	B3	8	..	38828b	81	3317	33.5	-16 13	8.7	9.5	G5	3	..	41225b
32	744	33.1	-75 21	5.74	6.7	Fo	..	0,8 R	56,129	82	3469	33.5	-21 14	10.2	10.7	F8	2	..	39950b
33	1894	33.2	+47 23	6.25	6.59	F2	10	..	37726i	83	3185	33.5	-23 8	9.8	10.8	Ko	1	..	39950b
34	2373	33.2	+23 58	8.6	9.6	Ko	1	..	38311i	84	7865	33.5	-33 40	8.3	9.1	Fo	4	..	41232b
35	2631	33.2	+20 40	8.2	8.3	A3	3	..	38229i	85	6665	33.5	-41 54	10.0	10.5	K2	1	..	41420b
36	3266	33.2	- 7 59	10.5	10.5	Ao	1	..	41240b	86	5883	33.5	-51 40	8.5	9.3	K5	3	..	38406b
37	3214	33.2	-18 50	8.7	9.2	F8	3	..	41225b	87	4654	33.5	-56 30	8.5	9.8	G5	1	..	38957b
38	3212	33.2	-19 12	9.6	11.0	K2	2	..	39947b	88	3207	33.5	-60 49	9.1	9.0	B5	2	..	38828b
39	3312	33.2	-20 10	8.93	9.9	Go	4	..	39950b	89	2463	33.5	-61 16	5.32	5.32	Ao	..	0,7	28,206
40	9859	33.2	-25 2	9.05	9.6	F2	6	..	39950b	90	2163	33.5	-62 38	7.4	7.2	B3	6	..	38828b
41	8214	33.2	-27 44	7.62	8.4	Ko	7	..	40312b	91	2164	33.5	-62 50	8.6	8.4	B	3	..	38828b
42	7464	33.2	-44 35	8.5	9.0	B8	4	..	41420b	92	455	33.6	+75 35	8.17	9.17	Ko	5	0,7	37742i
43	6670	33.2	-48 33	9.6	9.5	Go	1	..	19003b	93	618	33.6	+69 24	8.2	8.6	F5	4	..	37554i
44	5876	33.2	-51 16	10.0	9.8	Ao	1	..	38406b	94	2218	33.6	+40 48	7.60	8.02	F5	5	..	37726i
45	4672	33.2	-54 9	8.1	8.9	G5	5	..	38406b	95	2381	33.6	+17 39	8.4	9.4	Ko	1	..	38229i
46	2460	33.2	-61 54	8.0	8.4	B5	5	..	38828b	96	2521	33.6	+ 4 59	8.4	8.7	F2	6	0,4	13731b
47	1934	33.2	-64 0	9.8	9.8	B9	1	..	38798b	97	3311	33.6	-10 41	8.6	9.4	G5	4	..	21155b
48	423	33.2	-83 32	10.1	10.2	A2	1	..	45456b	98	3466	33.6	-12 39	5.64	6.20	Go	..	R	56,129
49	342	33.3	+82 38	8.16	8.94	G5	3	..	37465i	99	3318	33.6	-15 39	8.5	9.0	F8	5	..	41225b
50	843	33.3	+64 53	6.44	6.50	A2	8	1,9	37554i	100	3216	33.6	-19 1	10.7	10.8	A2	1	..	39947b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

101200

11^h 33^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6857	33.6	-40 34	9.6	9.8	Go	2	..	41420b	51	673	33.9	-78 41	9.1	10.2	K2	1	..	45481b
2	7008	33.6	-47 53	8.6	9.3	G5	3	..	19003b	52	654	34.0	+68 34	9.1	9.9	G5	2	..	37554i
3	6354	33.6	-49 39	9.2	9.8	K5	1	..	13033b	53	1395	34.0	+59 21	9.2	9.5	F	3	E	37718i
4	4677	33.6	-54 48	9.7	10.0	Fo	1	..	38406b	54	1578	34.0	+52 45	8.0	8.6	Go	3	..	38321i
5	2168	33.6	-62 49	6.9	6.7	B2	8	..	38828b	55	2549	34.0	-2 2	8.5	9.6	K2	4	..	19394b
6	2135	33.7	+42 53	8.4	9.5	K2	4	..	37726i	56	3372	34.0	-14 19	9.1	10.2	K2	2	..	21155b
7	2219	33.7	+41 43	8.2	8.7	F8	6	..	37726i	57	3371	34.0	-14 29	8.7	9.3	Go	4	2,4	41225b
8	2375	33.7	+24 18	8.2	8.6	F5	2	..	38311i	58	3472	34.0	-20 26	10.0	10.7	F8	2	..	39950b
9	3422	33.7	-7 3	7.9	8.2	F2	7	..	41240b	59	9867	34.0	-24 9	6.39	7.6	G5	9	..	40312b
10	3370	33.7	-14 30	8.1	8.6	F8	6	2,5	21155b	60	8682	34.0	-26 41	11.6	10.7	F5	2	..	40312b
11	3297	33.7	-16 55	9.6	10.4	G5	3	..	39947b	61	8998	34.0	-28 44	10.6	10.5	Fo	2	..	40312b
12	3315	33.7	-19 57	9.6	10.7	G5	2	..	39950b	62	9366	34.0	-30 19	8.7	9.1	A5	4	..	41232b
13	3345	33.7	-21 19	10.2	11.0	G5	1	..	39950b	63	9151	34.0	-32 7	10.6	11.2	G5	2	..	39923b
14	10092	33.7	-23 17	9.9	10.5	G5	3	..	39950b	64	7253	34.0	-38 46	9.6	9.8	Fo	1	..	41415b
15	7247	33.7	-38 41	7.7	8.2	Ao	7	..	41415b	65	7229	34.0	-39 18	7.78	8.9	K2	3	..	41415b
16	6858	33.7	-40 18	9.18	10.0	K2	2	..	41420b	66	7473	34.0	-44 48	9.2	9.9	G5	1	..	41420b
17	7156	33.7	-45 58	9.8	10.0	Ao	4	..	19003b	67	4743	34.0	-52 51	9.0	9.0	Ao	3	..	38406b
18	6201	33.7	-50 42	10.0	9.5	Ao	3	..	38406b	68	4660	34.0	-56 56	9.2	9.5	Fo	2	..	38957b
19	4668	33.7	-53 42	9.0	9.3	Fo	3	..	38406b	69	1936	34.0	-63 58	8.9	9.9	Ko	1	..	38798b
20	3769	33.7	-58 58	8.1	9.6	K5	2	..	38957b	70	467	34.0	-82 31	9.0	9.1	A2	5	0,5	13466b
21	3665	33.7	-60 4	9.40	9.3	B9	1	R	38957b	71	3320	34.1	-16 4	8.1	9.5	Ma	3	..	41225b
22	3664	33.7	-60 6	7.76	9.3	K	1	..	38957b	72	3298	34.1	-16 46	9.6	10.2	Go	2	..	39947b
23	2171	33.7	-62 38	8.6	8.6	B8	3	..	38828b	73	10097	34.1	-23 46	9.3	9.6	K2	6	..	39950b
24	381	33.8	+80 53	9.5	9.6	A2	2	..	38332i	74	7386	34.1	-37 12	8.9	9.1	Ao	3	..	41415b
25	531	33.8	+73 6	8.8	8.8	Ao	6	0,3	4907m	75	4670	34.1	-53 34	9.1	10.1	Ko	1	..	38406b
26	..	33.8	+69 6	..	..	G5	1	..	37554i	76	4661	34.1	-56 30	9.3	9.3	B9	2	..	38957b
27	1949	33.8	+44 51	8.02	8.58	Go	3	..	37726i	77	580	34.1	-80 9	8.7	8.8	A3	3	..	13466b
28	2477	33.8	+6 20	8.9	9.4	F8	4	..	13731b	78	2382	34.2	+17 4	8.0	9.0	Ko	1	..	38229i
29	3470	33.8	-20 30	10.5	10.8	F5	1	..	39950b	79	2526	34.2	+9 30	8.9	9.3	F5	3	..	13731b
30	3347	33.8	-21 44	10.2	11.4	K2	1	..	39950b	80	2594	34.2	+1 31	8.9	10.0	K2	2	..	19342b
31	8217	33.8	-27 51	10.1	10.2	Ko	2	..	40312b	81	3157	34.2	-3 35	8.7	9.8	K2	3	..	19394b
32	8221	33.8	-28 7	9.4	9.7	F8	2	..	40312b	82	3473	34.2	-20 56	10.0	11.0	G5	2	..	39950b
33	7224	33.8	-39 45	6.96	8.2	Ko	5	..	41415b	83	8224	34.2	-28 0	9.9	10.2	A3	2	..	40312b
34	6669	33.8	-41 9	9.8	10.3	Go	1	..	41420b	84	9000	34.2	-28 47	9.9	11.6	K5	1	..	40312b
35	6358	33.8	-49 48	10.2	9.3	Ao	2	..	13033b	85	9247	34.2	-29 48	8.3	8.8	G5	5	..	40312b
36	5887	33.8	-51 49	9.0	9.3	Ko	3	..	38406b	86	9369	34.2	-30 29	9.9	9.7	F2	4	..	40312b
37	3668	33.8	-59 41	9.1	9.8	Ko	1	..	38957b	87	7166	34.2	-45 44	8.9	10.8	K2	1	..	19003b
38	1779	33.8	-67 54	8.9	8.9	B9	3	..	38923b	88	1268	34.2	-71 48	7.1	7.2	A2	8	..	40298b
39	470	33.9	+74 25	8.37	9.37	Ko	6	0,4	4907m	89	2241	34.3	+25 52	8.0	8.6	Go	5	E	37505i
40	858	33.9	+64 37	8.90	9.46	Go	2	..	38285i	90	2387	34.3	+21 52	8.2	9.0	G5	3	..	38229i
41	2514	33.9	+18 23	7.6	8.0	F5	4	..	38229i	91	2457	34.3	+2 6	8.9	9.4	F8	2	..	19342b
42	2478	33.9	+6 36	8.1	8.9	G5	7	..	13731b	92	2456	34.3	+1 57	10.7	10.7	Ao	3	..	19342b
43	3322	33.9	-5 44	8.9	9.0	A2	3	..	41240b	93	3375	34.3	-14 20	9.6	10.7	K2	1	..	21155b
44	3144	33.9	-11 35	9.3	10.3	Ko	1	..	21155b	94	3322	34.3	-15 16	9.16	10.34	K5	2	..	21155b
45	3471	33.9	-20 37	7.72	8.0	A2	10	..	39950b	95	8685	34.3	-26 17	8.3	9.3	K2	6	..	40312b
46	3348	33.9	-21 55	10.0	10.7	F8	2	..	39950b	96	4663	34.3	-56 29	8.6	8.9	A2	4	..	38957b
47	7012	33.9	-47 18	7.5	8.2	Ko	7	..	19003b	97	3675	34.3	-59 20	9.5	9.5	Ao	1	..	38957b
48	4680	33.9	-54 26	8.8	9.2	Fo	4	..	38406b	98	2186	34.3	-62 52	7.8	7.6	B3	5	..	38828b
49	4883	33.9	-57 42	9.8	9.8	Ao	1	..	38957b	99	..	34.4	+75 18	..	..	Ko	1	..	4907m
50	1630	33.9	-66 26	8.6	9.4	G5	2	..	38923b	100	1951	34.4	+45 5	8.2	9.0	G5	2	..	37726i

THE HENRY DRAPER CATALOGUE.

101300

11^h 34^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2482	34.4	+19 33	8.9	9.3	F5	3	..	38229i	51	3218	34.7	-18 58	9.2	9.8	Go	4	..	39947b
2	2483	34.4	+19 33	7.05	7.47	F5	6	..	38229i	52	3476	34.7	-20 34	9.8	10.7	G5	2	..	39950b
3	2515	34.4	+18 28	8.1	9.3	K5	1	..	38229i	53	10103	34.7	-23 36	10.4	10.8	Go	2	..	39950b
4	2384	34.4	+10 53	8.9	9.0	A2	5	..	13731b	54	9873	34.7	-25 0	11.1	11.6	K2	1	..	39950b
5	2527	34.4	+ 3 24	8.5	9.0	F8	6	..	19342b	55	9374	34.7	-31 0	10.6	11.4	Ko	1	..	40312b
6	2551	34.4	- 2 10	8.92	9.99	K2	2	..	19394b	56	9377	34.7	-31 6	10.8	11.7	Ko	1	..	40312b
7	9870	34.4	-24 20	7.58	8.7	Ko	7	..	39950b	57	9158	34.7	-31 56	9.9	11.0	G5	1	..	39923b
8	9370	34.4	-30 39	9.1	10.3	K2	3	..	40312b	58	7608	34.7	-34 26	7.8	9.1	K5	4	..	41232b
9	7259	34.4	-38 50	8.2	8.5	G5	4	..	41415b	59	7176	34.7	-45 58	10.2	10.8	F5	2	..	19003b
10	5895	34.4	-51 20	8.8	9.0	Go				60	6220	34.7	-51 8	8.4	8.6	G5	6	..	38406b
11		34.4	-51 20			A3	5	R	38406b	61	5903	34.7	-51 59	9.1	9.5	Ko	3	..	38406b
12	4894	34.4	-57 11	7.9	7.4	Ao	4	1,7	43030b	62	4665	34.7	-56 48	9.6	9.6	A	1	..	38957b
13	4895	34.4	-57 37	9.5	9.5	Ao	1	..	38957b	63	2484	34.7	-61 22	9.8	9.8	Ao	2	..	38828b
14	4893	34.4	-58 2	7.6	8.1	G5	5	..	38957b	64	620	34.8	+69 34	8.44	9.22	G5	2	..	38683i
15	3772	34.4	-58 15	9.3	9.3	B9	1	..	38957b	65	974	34.8	+62 57	7.02	7.44	F5	8	..	37718i
16	3215	34.4	-60 50	8.7	8.9	A2	4	..	38828b	66	2233	34.8	+42 36	7.9	9.3	Ma	3	..	37726i
17	1404	34.4	-70 20	7.7	7.7	Ao	6	..	38923b	67	3114	34.8	- 4 24	8.7	9.7	Ko	5	..	19394b
18	619	34.5	+68 47	8.8	10.2	Ma	2	..	37554i	68	3147	34.8	-11 37	9.3	10.3	Ko	1	..	21155b
19	1952	34.5	+45 43	7.9	8.2	F2	5	..	37726i	69	3420	34.8	-13 55	6.39	6.39	Ao	..	..	56,129
20	2044	34.5	+27 31	8.2	8.3	A2	4	..	38311i	70	3323	34.8	-16 4	6.48	7.83	Ma	7	..	41225b
21	3470	34.5	-12 37	6.80	7.80	Ko	..	0,7	56,129	71	7213	34.8	-44 5	8.0	9.0	Ao	5	..	41420b
22	3349	34.5	-22 3	9.1	10.7	Ko	2	..	39950b	72	4753	34.8	-52 10	8.6	8.9	Go	4	..	38406b
23	8228	34.5	-27 18	10.1	10.7	Ko	1	..	40312b	73	4692	34.8	-54 26	8.3	8.3	A3	7	..	38406b
24	9008	34.5	-28 36	9.4	10.5	G5	1	..	40312b	74	4691	34.8	-55 3	8.80	9.5	G5	3	..	38406b
25	9250	34.5	-29 9	10.8	10.0	A3	3	..	40312b	75	4668	34.8	-56 42	8.9	9.5	G5	3	..	38957b
26	9251	34.5	-29 55	9.7	10.0	G5	2	..	40312b	76	3678	34.8	-59 13	8.8	9.0	A5	4	..	38957b
27	7316	34.5	-36 52	7.53	7.7	F8	6	..	41415b	77	3222	34.8	-60 36	8.4	8.6	F8	4	..	38957b
28	6217	34.5	-50 52	7.4	8.9	K2	5	..	38406b	78	2487	34.8	-62 5	9.1	9.2	B3	3	..	38828b
29	4664	34.5	-56 39	9.6	9.6	Ao	2	..	38957b	79		34.8	-64 50			Go	..	R	56,129
30	2478	34.5	-61 52	7.4	7.8	Ao	2	..	43030b	80	1685	34.8	-64 50			Ao	..	..
31	2192	34.5	-62 18	8.6	8.6	Ao	3	..	38828b	81	656	34.9	+68 10	8.2	8.5	Fo	4	..	37554i
32	2191	34.5	-62 22	7.6	7.4	B3	6	..	38828b	82	1536	34.9	+55 51	8.2	8.6	F5	4	..	38321i
33	2190	34.5	-62 58	8.9	8.8	B5	3	..	38828b	83	2377	34.9	+24 40	9.76	10.54	G5	1	..	38311i
34	1698	34.5	-65 27	9.9	9.9	Ao	2	..	38798b	84	3219	34.9	-18 33	9.3	10.3	Ko	1	..	39947b
35	1544	34.5	-68 22	8.7	8.8	A2	4	..	38923b	85	3318	34.9	-20 12	9.68	10.7	Ko	2	..	39950b
36	2318	34.6	+10 16	10.0	10.6	Go	1	..	13731b	86	9382	34.9	-30 51	10.4	10.3	F8	1	..	40312b
37	2523	34.6	+ 5 25	8.5	9.5	Ko	4	..	13731b	87	8226	34.9	-32 53	7.07	7.7	Ko	6	..	41232b
38	2469	34.6	- 0 53	9.3	10.1	G5	4	..	19394b	88	7178	34.9	-45 25	7.83	8.1	A5	7	2,7	41420b
39	3113	34.6	- 4 26	8.7	9.5	G5	4	..	19394b	89	4902	34.9	-57 25	9.3	9.3	Ao	2	..	38957b
40	3325	34.6	- 6 3	9.1	9.9	G5	3	..	41240b	90	2488	34.9	-61 14	8.2	9.0	Ko	4	..	38828b
41	3211	34.6	- 8 55	7.48	8.48	Ko	6	..	21155b	91	1331	35.0	+58 31	6.10	6.10	Ao	9	..	38285i
42	3300	34.6	-16 19	9.6	10.0	F5	3	..	39947b	92	1503	35.0	+52 48	8.2	9.0	G5	1	..	38321i
43	3299	34.6	-17 1	8.9	9.5	Go	4	..	39947b	93	2076	35.0	+48 47	8.8	8.9	A3	2	..	37726i
44	3434	34.6	-17 33	9.8	10.9	K2	1	..	39947b	94	2205	35.0	+37 2	8.4	9.4	Ko	2	..	38401i
45	3189	34.6	-22 27	10.0	10.7	G5	2	..	39950b	95	2175	35.0	+31 56	8.9	9.5	Go	1	..	38401i
46	8803	34.6	-25 16	11.3	11.4	G5	1	..	39950b	96	2243	35.0	+26 42	8.05	9.05	Ko	4	..	38311i
47	9157	34.6	-32 2	9.1	10.3	Ko	2	..	22921b	97	2378	35.0	+24 16	6.82	6.90	A3	6	..	38229i
48	7607	34.6	-34 40	8.2	8.3	G5	5	..	41232b	98	2480	35.0	+ 6 25	8.5	9.5	Ko	4	..	13731b
49	7021	34.6	-47 55	9.1	9.6	G5	2	..	19003b	99	3389	35.0	- 2 26	9.2	9.5	F2	3	..	19394b
50	3376	34.7	-14 16	10.0	11.0	Ko	1	..	21155b	100	3436	35.0	-18 9	9.6	10.2	Go	3	..	39947b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

101400

11^h 35^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3478	35.0	-21 9	9.8	10.7	Go	3	..	39950b	51	7611	35.3	-34 41	9.0	10.3	K5	1	..	41232b
2	8808	35.0	-26 5	8.5	9.1	Ko	8	..	40312b	52	7264	35.3	-38 35	7.56	8.2	A2	6	..	41415b
3	8233	35.0	-27 34	11.1	10.2	Fo	2	..	40312b	53	7217	35.3	-43 11	7.9	10.0	K5	3	..	41420b
4	9256	35.0	-29 55	7.9	8.8	Ko	6	..	40312b	54	7184	35.3	-45 31	10.0	10.5	Go	1	..	19003b
5	7323	35.0	-36 21	8.2	9.7	K2	2	..	13157b	55	6700	35.3	-48 35	8.5	8.7	F5	2	..	19003b
6	7399	35.0	-37 33	6.60	7.4	G5	8	..	41415b	56	1687	35.3	-64 43	9.0	9.0	Ao	4	..	38828b
7	7263	35.0	-38 54	9.8	9.8	Fo	2	..	41415b	57	621	35.4	+69 1	9.5	10.5	Ko	3	..	37554i
8	7180	35.0	-45 15	7.48	8.4	Ko	6	5,7	19003b	58	846	35.4	+64 45	9.10	9.38	F	2	..	37718i
9	6696	35.0	-48 36	10.0	9.5	Fo	1	..	19003b	59	2245	35.4	+34 14	8.9	10.1	K5	1	..	38401i
10	6377	35.0	-49 56	6.82	7.4	Ao	9	..	13033b	60	2439	35.4	+13 22	8.5	8.9	F5	3	..	38357i
11	4523	35.0	-55 10	9.36	9.6	G5	1	..	38406b	61	2555	35.4	- 1 17	8.9	10.0	K2	3	..	19394b
12	3681	35.0	-59 37	8.6	9.0	Ao	2	..	38957b	62	2554	35.4	- 1 55	9.3	10.1	G5	2	..	19394b
13	2205	35.0	-62 55	8.4	8.2	B	3	..	38828b	63	7365	35.4	-35 17	9.38	9.5	Ao	3	..	41232b
14	..	35.0	-72 0	var.	var.	Na	..	R	M	64	5912	35.4	-51 30	9.1	9.6	K2	2	..	38406b
15	875	35.0	-73 15	9.1	9.1	Ao	4	..	39198b	65	3778	35.4	-58 26	7.6	8.0	G5	5	..	38957b
16	2244	35.1	+26 20	8.00	8.42	F5	5	..	38311i	66	3231	35.4	-60 38	7.4	7.3	B9	7	..	38957b
17	2389	35.1	+21 56	8.9	9.5	Go	2	..	38229i	67	510	35.4	-81 46	9.4	10.0	G	1	..	13466b
18	3437	35.1	-17 19	10.6	11.2	Go	1	..	39947b	68	1743	35.5	+46 41	9.7	10.3	G	2	..	37726i
19	3319	35.1	-20 11	9.68	10.3	F5	2	..	39950b	69	2342	35.5	+21 36	8.0	8.8	G5	3	..	38229i
20	8692	35.1	-26 43	10.8	10.3	F8	1	..	40312b	70	2530	35.5	+ 9 13	8.3	8.4	A2	9	..	13731b
21	9012	35.1	-28 47	8.7	10.2	K2	3	..	40312b	71	3161	35.5	- 3 30	10.0	10.6	Go	1	..	19394b
22	9162	35.1	-31 13	10.1	10.6	Go	1	..	40312b	72	3271	35.5	- 7 51	7.42	7.98	Go	8	..	41240b
23	7268	35.1	-46 38	9.2	9.6	Ao	4	..	19003b	73	3439	35.5	-17 37	8.5	8.9	F5	3	..	41225b
24	2491	35.1	-61 39	9.8	9.8	Ao	3	..	38828b	74	3440	35.5	-18 9	9.8	10.4	Go	1	..	39947b
25	1686	35.1	-64 9	8.5	9.0	F8	3	..	38828b	75	3438	35.5	-18 12	9.6	10.7	K2	2	..	39947b
26	2461	35.2	+ 2 10	8.3	9.1	G5	4	..	19342b	76	3221	35.5	-18 55	8.7	9.5	G5	3	..	41225b
27	3390	35.2	- 2 46	8.7	8.8	A5	4	..	19394b	77	3354	35.5	-21 47	8.9	9.6	F2	5	..	39950b
28	3158	35.2	- 3 19	9.3	10.1	G5	1	..	19394b	78	7218	35.5	-43 58	10.5	10.5	Ao	2	..	41420b
29	8235	35.2	-27 17	11.1	10.5	G5	1	..	40312b	79	6703	35.5	-48 36	8.2	7.8	Ao	6	..	19003b
30	8237	35.2	-27 56	7.24	8.7	Ma	5	..	40312b	80	4905	35.5	-57 14	8.9	9.2	A2	3	..	38957b
31	7610	35.2	-34 11	4.88	4.88	B8	..	R	28,206	81	3233	35.5	-60 51	8.6	8.9	Fo	2	..	38957b
32	6685	35.2	-41 34	9.6	10.5	Ko	1	..	41420b	82	2498	35.5	-61 40	9.3	9.3	B9	2	..	38828b
33	6699	35.2	-48 21	10.0	9.6	Go	1	..	19003b	83	1258	35.6	+61 24	7.17	7.95	G5	7	..	37718i
34	4757	35.2	-53 5	8.6	9.8	K5	1	..	38406b	84	2391	35.6	+21 54	5.43	6.21	G5	8	..	38229i
35	4683	35.2	-53 33	9.0	9.8	Ko	2	..	38406b	85	2517	35.6	+18 16	8.7	9.7	Ko	1	..	38229i
36	2206	35.2	-62 55	7.7	7.5	B3	7	..	38828b	86	2387	35.6	+17 34	8.7	9.5	G5	1	..	38229i
37	2208	35.2	-63 5	9.3	9.3	Ao	3	..	38828b	87	2440	35.6	+13 38	8.6	10.0	Mb	..	..	M
38	346	35.2	-84 56	7.47	7.6	Fo	6	5,7	13459b	88	2471	35.6	- 0 59	9.3	9.4	A3	2	..	19394b
39	1339	35.3	+60 39	7.79	8.07	Fo	5	..	37718i	89	3441	35.6	-17 47	9.2	9.8	Go	2	..	41225b
40	2384	35.3	+17 21	9.0	9.4	F5	1	..	38229i	90	8241	35.6	-27 35	9.9	9.6	A2	2	..	40312b
41	2362	35.3	+11 45	8.9	10.3	Mb	..	..	M	91	9020	35.6	-28 19	9.9	9.6	Ao	3	..	40312b
42	2323	35.3	+10 2	9.3	10.5	K5	2	..	13731b	92	9267	35.6	-29 35	9.1	10.3	Ko	2	..	40312b
43	2525	35.3	+ 5 41	7.8	8.2	F5	8	..	13731b	93	7144	35.6	-42 36	8.9	8.8	F5	4	..	41420b
44	2510	35.3	+ 4 12	8.5	9.3	G5	6	..	19342b	94	7188	35.6	-46 0	8.6	9.6	Ko	4	..	19003b
45	2597	35.3	+ 1 31	6.83	6.91	A3	10	..	19342b	95	6227	35.6	-50 57	9.0	9.2	F8	3	..	38406b
46	3303	35.3	-17 14	10.9	11.0	A2	2	..	39947b	96	6230	35.6	-50 58	8.9	9.5	Ko	1	..	38406b
47	3320	35.3	-19 58	10.5	10.7	A5	2	..	39950b	97	4767	35.6	-52 28	9.0	9.8	G5	1	..	38406b
48	3352	35.3	-21 33	9.2	10.7	K2	2	..	39950b	98	2500	35.6	-61 52	8.0	8.4	Ko	6	..	38828b
49	8693	35.3	-26 46	10.6	10.2	F5	2	..	40312b	99	..	35.7	+76 49	..	..	A2	2	..	4907m
50	7885	35.3	-33 54	8.9	10.0	F5	2	..	41232b	100	622	35.7	+69 30	8.09	8.87	G5	3	..	37554i

THE HENRY DRAPER CATALOGUE.

101500

11^h 35^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2270	35.7	+34 46	5.46	6.24	G5	9	R	38401i	51	8821	36.0	-25 41	8.5	9.0	F5	6	0,7	40312b
2	3213	35.7	- 8 17	8.7	9.9	K5	2	..	41240b	52	9273	36.0	-29 10	9.9	11.2	K2	1	..	40312b
3	3154	35.7	-11 41	9.6	10.2	Go	1	..	21155b	53	7895	36.0	-33 22	8.3	9.4	Ao	3	..	41232b
4	8238	35.7	-32 53	8.6	9.1	F8	3	..	41232b	54	6696	36.0	-41 39	9.2	10.5	Ko	1	..	41420b
5	7889	35.7	-33 42	8.7	10.6	G5	1	..	41232b	55	4774	36.0	-52 19	9.4	9.5	A2	3	..	38406b
6	7411	35.7	-38 1	8.6	8.8	F5	4	..	41415b	56	1408	36.0	-71 1	8.8	8.8	Ao	2	..	38923b
7	6390	35.7	-49 38	9.1	8.7	Ao	4	..	13033b	57	730	36.1	+66 15	8.6	9.4	G5	2	..	37554i
8	6233	35.7	-50 25	9.8	9.3	Ao	2	..	13033b	58	2403	36.1	+25 22	8.7	9.7	Ko	2	..	38311i
9	4770	35.7	-52 11	9.1	9.6	G5	2	..	38406b	59	3162	36.1	- 3 19	9.3	9.6	F2	4	..	19394b
10	4704	35.7	-54 50	10.0	10.0	Ao	2	..	38406b	60	3304	36.1	-17 9	7.05	8.05	Ko	7	..	41225b
11	2504	35.7	-61 38	8.6	8.6	B9	6	..	38828b	61	3483	36.1	-20 50	9.8	11.0	K2	1	..	39950b
12	2324	35.8	+ 9 50	9.27	9.69	F5	2	..	13731b	62	9026	36.1	-28 18	9.6	9.3	F5	5	..	40312b
13	2526	35.8	+ 5 31	8.4	8.7	F2	6	..	13731b	63	9027	36.1	-28 39	6.46	6.9	Go	8	..	40312b
14	2821	35.8	- 0 7	7.13	8.20	K2	7	0,7	19342b	64	9274	36.1	-29 44	9.3	9.4	F8	4	..	40312b
15	2556	35.8	- 2 14	8.77	9.27	F8	5	..	19394b	65	9173	36.1	-31 36	10.4	11.7	Ko	2	..	39923b
16	3120	35.8	- 4 39	8.1	9.2	K2	5	..	19394b	66	6884	36.1	-40 19	8.08	8.9	K5	3	..	41420b
17	3342	35.8	- 9 22	7.42	8.42	Ko	6	..	21155b	67	5921	36.1	-52 6	10.2	9.7	A2	4	..	38406b
18	3379	35.8	-14 49	9.6	10.0	F5	2	..	21155b	68	4706	36.1	-54 32	7.7	9.0	Ko	4	..	38406b
19	3193	35.8	-22 30	9.6	10.2	F5	3	..	39950b	69	3239	36.1	-60 25	7.20	8.9	K5	3	..	38957b
20	3194	35.8	-22 32	9.3	9.6	F5	4	..	39950b	70	2514	36.1	-61 32	4.88	6.8	Go	..	R	28,206
21	8699	35.8	-26 16	9.6	9.0	Ao	6	..	40312b	71	1787	36.1	-67 36	9.2	9.3	A3	2	..	38923b
22	6708	35.8	-48 13	9.6	9.5	Ko	2	..	19003b	72	1581	36.2	+52 33	8.6	9.1	F8	2	..	38321i
23	6706	35.8	-48 57	7.9	8.3	Ao	7	..	19003b	73	2142	36.2	+32 48	8.8	9.6	G5	2	..	38401i
24	5916	35.8	-51 20	8.9	9.5	K2	4	..	38406b	74	2472	36.2	- 1 13	8.5	8.9	F5	5	..	19394b
25	5915	35.8	-51 38	9.8	10.1	Ko	1	..	38406b	75	3330	36.2	-16 8	7.7	8.9	K5	5	..	41225b
26	4771	35.8	-52 14	10.0	10.1	A5	1	..	38406b	76	10118	36.2	-23 48	9.9	10.5	K2	3	..	39950b
27	4537	35.8	-55 46	7.4	8.9	Ko	4	..	38406b	77	8246	36.2	-27 16	10.6	10.3	Ko	1	..	40319b
28	3692	35.8	-59 55	8.6	8.6	Fo	4	..	38957b	78	8248	36.2	-27 30	9.9	10.2	Ko	2	..	40319b
29	2222	35.8	-62 39	9.5	9.5	B8	2	..	38828b	79	7414	36.2	-37 14	9.6	9.8	G5	1	..	13157b
30	1940	35.8	-63 54	8.1	8.7	Go	5	..	38828b	80	6885	36.2	-40 16	9.54	10.1	G5	1	..	41420b
31	1545	35.8	-69 7	7.5	8.5	Ko	6	..	38923b	81	7228	36.2	-43 51	7.4	8.8	K5	6	..	41420b
32	232	35.8	-86 43	8.5	9.5	Ko	4	..	22238b	82	4693	36.2	-53 59	7.7	7.4	Ao	9	..	38406b
33	384	35.9	+81 8	8.8	8.9	A5	4	..	37465i	83	4708	36.2	-54 31	9.0	10.0	Ko	1	..	38406b
34	2387	35.9	+11 21	8.7	9.7	Ko	1	..	38357i	84	4707	36.2	-55 1	7.04	8.0	Go	10	..	38406b
35	3155	35.9	-11 39	9.6	10.4	G5	1	..	21155b	85	1955	36.3	+44 45	7.77	9.12	Ma	2	..	37726i
36	3481	35.9	-20 39	9.8	10.7	K2	2	..	39950b	86	2029	36.3	+28 11	8.1	8.4	Fo	3	..	38311i
37	8819	35.9	-25 31	9.9	10.3	F2	3	..	39950b	87	2641	36.3	+20 5	8.8	9.8	Ko	2	..	38229i
38	8702	35.9	-26 15	9.9	9.1	A3	7	..	40312b	88	2534	36.3	+ 9 33	8.6	9.4	G5	4	..	13731b
39	7149	35.9	-42 11	8.6	8.8	Ao	7	..	41420b	89	2599	36.3	+ 1 30	8.9	9.3	F5	3	..	19342b
40	7221	35.9	-43 36	9.4	9.6	A5	4	..	41420b	90	10119	36.3	-23 31	10.1	10.7	G5	3	..	39950b
41	4691	35.9	-53 24	5.98	7.6	Ma	..	5,8	28,206	91	9883	36.3	-24 39	11.3	11.6	Go	1	..	39950b
42	4539	35.9	-55 19	9.3	9.3	B9	3	..	38406b	92	8705	36.3	-26 47	11.1	11.4	Ko	1	..	40312b
43	4683	35.9	-57 8	8.7	9.2	A2	3	..	38957b	93	9174	36.3	-31 36	10.1	11.9	Ko	1	..	39923b
44	4910	35.9	-57 33	8.6	9.2	G5	2	..	38957b	94	7899	36.3	-33 57	8.2	9.4	Ko	3	..	41232b
45	2508	35.9	-62 0	7.6	6.3	B2	10	..	38828b	95	7196	36.3	-45 34	10.9	10.8	Ao	2	..	19003b
46	1547	35.9	-68 39	8.6	8.6	B9	4	..	38923b	96	7288	36.3	-46 20	9.2	9.6	A5	5	..	19003b
47	583	36.0	+71 29	9.7	10.5	G5	2	..	37554i	97	7048	36.3	-47 38	9.2	10.5	G5	1	..	19003b
48	1397	36.0	+59 29	8.8	9.4	G	4	R	37718i	98	6398	36.3	-49 38	8.6	8.6	Ko	4	..	13033b
49	2115	36.0	+44 34	7.77	7.83	A2	6	..	37726i	99	4696	36.3	-54 5	9.1	9.3	A2	2	..	38406b
50	2422	36.0	+14 20	8.7	9.5	G5	2	..	38357i	100	3697	36.3	-60 3	8.50	8.6	Ao	4	..	38957b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

101600

11^h 36^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3246	36.3	-60 22	7.40	8.6	Ko	5	..	38957b	51	7624	36.7	-34 22	10.2	10.3	A5	1	..	39923b
2	2223	36.3	-62 8	var.	var.	G5	2	R	38828b	52	4551	36.7	-56 4	9.8	9.8	Ao	1	..	38957b
3	1409	36.3	-71 6	8.2	8.2	Ao	5	..	38923b	53	3709	36.7	-59 12	9.0	10.0	Ko	1	..	38957b
4	1481	36.4	+55 43	6.40	7.58	K5	5	..	38321i	54	3706	36.7	-59 19	8.7	8.7	B9	3	..	38957b
5	..	36.4	+39 2	var.	var.	Md	..	R	56,201	55	2522	36.7	-61 45	9.5	9.6	A2	2	..	38828b
6	2179	36.4	+32 18	5.74	6.16	F5	10	..	38401i	56	658	36.8	+68 45	9.1	9.9	G5	2	..	37554i
7	2343	36.4	+20 58	8.9	9.2	Fo	3	..	38229i	57	2383	36.8	+24 0	8.0	8.1	A3	2	..	38229i
8	2514	36.4	+4 25	9.3	9.9	Go	6	..	19342b	58	2367	36.8	+12 1	8.9	9.0	A3	2	..	38357i
9	2533	36.4	+3 34	10.3	11.3	Ko	1	..	19342b	59	3434	36.8	-6 23	8.7	9.7	Ko	3	..	41240b
10	3195	36.4	-22 52	8.7	9.1	F2	5	..	39950b	60	3360	36.8	-22 6	8.7	9.4	Ma	4	..	39950b
11	9885	36.4	-24 39	10.8	10.8	Go	2	..	39950b	61	3359	36.8	-22 9	9.6	10.7	K2	2	..	39950b
12	8823	36.4	-26 6	7.9	8.3	F8	8	..	40312b	62	3197	36.8	-22 33	10.5	10.7	F8	3	..	39950b
13	7619	36.4	-35 3	7.08	7.4	A3	8	..	41232b	63	3198	36.8	-22 42	9.8	10.5	Ko	5	..	39950b
14	6891	36.4	-40 27	6.88	8.2	Go	8	..	41420b	64	9283	36.8	-29 22	10.8	10.6	F2	2	..	40319b
15	7155	36.4	-42 32	5.69	5.69	Ao	..	..	56,129	65	9182	36.8	-31 55	9.4	8.5	Go	4	..	22921b
16	6399	36.4	-49 39	9.4	8.7	G5	2	..	13033b	66	9181	36.8	-31 57	5.31	7.2	K5	..	3,10	28,206
17	5928	36.4	-51 16	9.8	9.8	Ko	2	..	38406b	67	9183	36.8	-32 0	9.4	10.6	K2	1	..	22921b
18	4689	36.4	-57 3	8.4	9.6	Ko	2	..	38957b	68	7383	36.8	-35 28	10.2	10.0	A3	2	..	13157b
19	3699	36.4	-59 26	8.5	8.6	A2	3	..	38957b	69	5939	36.8	-51 37	10.0	10.0	G5	1	..	38406b
20	2236	36.5	+41 48	6.84	7.26	F5	8	..	37726i	70	3254	36.8	-60 26	9.1	8.9	B8	2	..	38957b
21	2528	36.5	+5 9	8.5	8.8	Fo	7	..	13731b	71	2232	36.8	-62 12	9.3	9.3	Ao	3	..	38828b
22	2535	36.5	+3 26	9.3	10.3	Ko	3	..	19342b	72	713	36.9	+67 39	8.7	8.8	A2	3	..	38285i
23	3442	36.5	-17 16	10.2	10.6	F5	2	..	39947b	73	714	36.9	+67 18	5.48	6.48	Ko	8	..	37554i
24	3485	36.5	-20 18	9.38	10.0	F2	3	..	39950b	74	2117	36.9	+44 42	8.62	8.96	F2	2	..	37726i
25	3357	36.5	-21 42	10.0	10.7	F5	2	..	39950b	75	2451	36.9	+40 14	8.7	9.5	G5	3	..	38656i
26	9887	36.5	-24 12	10.8	10.7	F8	3	..	39950b	76	2443	36.9	+12 51	7.12	7.54	F5	6	..	38357i
27	7339	36.5	-36 14	9.3	9.4	Ao	4	..	13157b	77	3223	36.9	-18 53	8.6	9.7	K2	2	..	41225b
28	4781	36.5	-52 24	8.4	9.3	Ko	3	..	38406b	78	10121	36.9	-23 18	10.4	10.5	F5	4	..	39950b
29	3248	36.5	-60 35	6.77	8.1	Ko	7	..	38957b	79	7276	36.9	-38 44	8.2	9.4	Ko	3	..	41415b
30	1789	36.5	-67 28	9.8	9.8	B9	1	..	38923b	80	7258	36.9	-40 1	9.44	10.1	Ko	2	..	41420b
31	2600	36.6	+1 33	8.7	9.2	F8	3	..	19342b	81	6709	36.9	-41 57	9.8	10.0	Ao	2	..	41420b
32	3433	36.6	-6 40	8.3	8.6	Fo	4	..	41240b	82	6411	36.9	-50 4	7.44	8.1	Fo	7	..	13033b
33	3444	36.6	-17 53	9.6	10.7	K2	1	..	39947b	83	3791	36.9	-58 11	8.3	9.0	K2	2	..	38957b
34	8706	36.6	-26 21	11.1	10.5	Go	2	..	40312b	84	1943	36.9	-63 16	7.3	8.1	G5	7	..	38828b
35	8708	36.6	-27 3	9.9	11.1	Ko	1	..	40319b	85	542	37.0	+71 55	9.8	9.8	A	2	..	37554i
36	7902	36.6	-34 0	9.6	11.8	Ko	1	..	39923b	86	659	37.0	+68 16	9.1	10.1	Ko	2	..	37554i
37	4696	36.6	-56 10	9.1	9.5	G5	1	..	38957b	87	2239	37.0	+42 2	9.1	9.6	F8	2	..	37726i
38	1410	36.6	-70 36	7.8	7.9	A2	5	..	38923b	88	2375	37.0	+22 46	6.62	6.96	F2	7	..	38229i
39	837	36.6	-74 28	9.3	9.3	Ao	4	..	39198b	89	2488	37.0	+19 11	9.3	10.3	Ko	1	..	38229i
40	343	36.7	+82 3	8.9	9.0	A3	4	..	37465i	90	2530	37.0	+5 18	7.6	8.2	Go	8	..	13731b
41	2272	36.7	+34 52	8.07	9.07	Ko	1	..	38401i	91	2537	37.0	+3 27	8.9	9.2	Fo	7	..	19342b
42	2248	36.7	+26 29	8.0	8.5	F8	3	..	38311i	92	2536	37.0	+3 0	10.7	11.9	K5	1	..	19342b
43	2328	36.7	+10 22	9.0	10.0	Ko	2	..	13731b	93	2602	37.0	+1 34	8.9	9.2	F2	2	..	19342b
44	3333	36.7	-6 7	8.9	9.7	G5	2	..	41240b	94	3308	37.0	-16 28	7.52	7.94	F5	7	..	41225b
45	3217	36.7	-8 31	7.32	8.10	G5	8	..	41240b	95	3326	37.0	-19 44	6.30	7.7	Ko	8	..	13147b
46	3424	36.7	-14 15	9.6	10.0	F5	1	..	21155b	96	10122	37.0	-23 50	6.87	7.4	Fo	9	..	39950b
47	3324	36.7	-19 29	9.6	10.2	Go	3	..	39947b	97	7230	37.0	-43 33	7.9	8.2	Fo	7	..	41420b
48	3325	36.7	-19 31	10.2	11.0	Ko	2	..	39947b	98	7516	37.0	-45 5	8.03	8.1	A2	6	0,8	41420b
49	3358	36.7	-22 12	10.2	10.7	F8	4	..	39950b	99	7201	37.0	-45 37	8.8	10.0	K5	3	..	19003b
50	R	36.7	-22 38	11.3	11.5	Ko	1	..	39950b	100	7304	37.0	-46 30	9.8	10.2	F2	2	..	19003b

THE HENRY DRAPER CATALOGUE.

101700

11^h 37^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4699	37.0	-57 0	8.3	9.3	Ko	2	..	38957b	51	4718	37.4	-54 34	8.8	9.8	Ko	2	..	38406b
2	3714	37.0	-59 40	9.2	9.2	B8	2	..	38957b	52	4719	37.4	-55 8	9.8	9.8	Ao	2	..	38406b
3	1792	37.0	-67 21	8.9	9.0	A2	5	..	38923b	53	2492	37.5	+18 48	7.26	7.24	B9	6	..	38229i
4	1551	37.0	-68 33	9.1	9.2	A3	3	..	38923b	54	2368	37.5	+12 25	8.5	9.0	F8	3	..	38357i
5	1412	37.0	-70 20	9.1	9.1	Ao	2	..	38923b	55	2477	37.5	- 0 23	9.01	10.19	K5	1	..	19342b
6	3309	37.1	-16 44	10.0	10.6	Go	3	..	39947b	56	3164	37.5	- 4 5	8.1	9.2	K2	7	..	19394b
7	7205	37.1	-45 46	10.0	10.7	A	1	..	19003b	57	3365	37.5	-21 59	9.1	9.9	Go	5	..	39950b
8	7203	37.1	-45 48	7.9	8.8	Ko	6	..	19003b	58	9044	37.5	-29 5	7.62	9.0	Ko	7	..	40319b
9	4700	37.1	-57 6	8.9	9.0	Ao	4	..	38957b	59	7909	37.5	-34 0	10.2	11.8	G5	1	..	39923b
10	3795	37.1	-58 34	8.2	9.6	Ko	2	..	38957b	60	7390	37.5	-35 26	8.2	9.1	Ko	4	..	13157b
11	3717	37.1	-59 40	7.2	7.4	Fo	3	0.7	43030b	61	6717	37.5	-42 2	9.6	10.3	Ko	2	..	41420b
12	2234	37.1	-62 51	7.9	9.3	Ma	3	..	38828b	62	4712	37.5	-53 58	8.8	9.2	F8	4	..	38406b
13	1413	37.1	-70 57	7.9	7.9	B9	7	..	38923b	63	4706	37.5	-57 0	7.26	7.3	Ao	4	0.8	43030b
14	976	37.2	+63 8	9.1	9.2	A5	2	..	38285i	64	3799	37.5	-58 42	8.9	9.5	Ko	1	..	38957b
15	1896	37.2	+47 4	9.5	10.1	G	2	..	37726i	65	1793	37.5	-67 17	9.6	9.6	Ao	2	..	38923b
16	2118	37.2	+44 20	8.02	8.52	F8	4	..	37726i	66	838	37.5	-74 34	8.3	9.4	K2	3	..	39198b
17	3382	37.2	-15 10	9.06	9.20	A5	3	..	21155b	67	1539	37.6	+55 52	8.9	9.4	F8	1	..	38321i
18	8716	37.2	-26 50	10.1	10.5	F8	1	..	40312b	68	1582	37.6	+52 29	8.6	9.1	F8	1	..	38321i
19	7906	37.2	-33 32	9.5	10.6	A2	2	..	22921b	69	2145	37.6	+33 16	8.3	8.6	F2	2	..	38401i
20	7425	37.2	-37 46	9.2	10.0	K5	1	..	41415b	70	2345	37.6	+21 38	8.2	8.6	F5	3	..	38229i
21	5948	37.2	-51 56	9.4	9.6	K2	2	..	38406b	71	3448	37.6	-18 4	9.8	9.8	Ao	3	2.2	39947b
22	4706	37.2	-54 5	9.1	10.1	Ko	1	..	38406b	72	8721	37.6	-26 57	8.7	9.0	F2	6	..	40319b
23	4931	37.2	-57 26	8.7	9.3	G5	1	..	38957b	73	8263	37.6	-32 34	9.6	11.2	Ko	2	..	39923b
24	1944	37.2	-63 14	7.5	7.5	B9	7	..	38828b	74	6718	37.6	-41 33	8.7	8.8	Ao	5	..	41420b
25	1700	37.2	-66 1	8.7	8.7	Ao	5	..	38798b	75	7214	37.6	-45 28	9.8	10.2	Fo	3	..	19003b
26	1552	37.2	-68 41	9.1	9.1	Ao	2	..	38923b	76	6421	37.6	-49 17	8.9	9.3	Ma	2	..	19003b
27	686	37.2	-76 30	7.4	7.7	F2	6	..	13467b	77	4795	37.6	-52 20	9.6	9.6	Ao	2	..	38406b
28	2384	37.3	+24 29	8.8	9.6	G5	1	..	38311i	78	4934	37.6	-57 49	9.8	9.8	B8	1	..	38957b
29	2485	37.3	+ 6 3	8.7	9.7	Ko	4	..	13731b	79	3266	37.6	-60 24	7.34	9.5	K2	2	..	38957b
30	2539	37.3	+ 2 55	6.06	7.38	F5	10	..	19342b	80	1794	37.6	-67 27	9.0	9.0	Ao	4	..	38923b
31	3477	37.3	-12 40	8.5	9.3	G5	2	..	21155b	81	1795	37.6	-67 37	9.6	9.6	Ao	2	..	38923b
32	3383	37.3	-14 39	9.3	9.8	F8	1	..	21155b	82	469	37.6	-82 32	6.22	8.2	Ko	8	5.8	13466b
33	3361	37.3	-21 18	9.2	10.0	F2	4	..	39950b	83	2473	37.7	+ 6 57	8.6	9.1	F8	5	..	13731b
34	3362	37.3	-22 5	9.6	9.9	A2	4	..	39950b	84	3399	37.7	- 2 59	7.41	7.41	Ao	4	0.10	19178b
35	3199	37.3	-22 51	10.2	10.2	Go	4	..	39950b	85	3338	37.7	- 5 52	8.7	9.7	Ko	3	..	41240b
36	6714	37.3	-41 22	10.0	10.0	F2	2	..	41420b	86	3224	37.7	- 8 47	8.3	8.4	A3	7	..	41240b
37	4559	37.3	-55 31	9.1	9.3	Ao	2	5.2	38957b	87	3449	37.7	-17 54	8.9	9.9	Ko	5	5.5	40314b
38	1272	37.3	-71 36	9.2	10.4	K5	1	..	39198b	88	6901	37.7	-40 34	9.5	10.3	K2	1	..	41420b
39	847	37.4	+64 54	8.85	9.27	F5	3	..	37718i	89	7168	37.7	-43 0	10.2	10.8	K2	1	..	41420b
40	1852	37.4	+50 30	8.0	9.0	Ko	3	..	38648i	90	7215	37.7	-46 0	9.6	10.0	Ao	4	..	19003b
41	2227	37.4	+41 27	8.8	9.6	G5	1	..	37726i	91	6272	37.7	-51 2	9.2	9.2	Ao	4	..	38406b
42	2491	37.4	+19 19	8.9	9.5	Go	2	..	38229i	92	4935	37.7	-57 20	9.1	10.0	Ko	1	..	38957b
43	3325	37.4	-10 58	8.7	9.7	Ko	1	..	21155b	93	3725	37.7	-60 7	9.06	8.3	B9	4	..	38957b
44	3157	37.4	-11 38	9.3	10.1	G5	3	..	21155b	94	2541	37.7	-61 55	8.8	8.3	B3	3	..	38828b
45	3200	37.4	-23 2	10.9	11.1	Ko	2	..	39950b	95	2237	37.7	-62 35	7.3	7.3	B8	7	..	38828b
46	10125	37.4	-23 26	10.8	11.4	K5	1	..	39950b	96	720	37.7	-77 36	9.7	9.7	Ao	3	..	21530b
47	9288	37.4	-29 29	11.1	11.2	Go	1	..	40319b	97	1540	37.8	+56 35	8.2	9.4	K5	2	..	38321i
48	7209	37.4	-45 37	9.8	10.8	K2	1	..	19003b	98	2469	37.8	+ 2 36	8.9	10.0	K2	2	..	19342b
49	7057	37.4	-47 37	8.4	9.0	Ko	4	..	19003b	99	7392	37.8	-35 15	9.11	9.5	Go	1	..	13157b
50	6730	37.4	-48 59	8.4	9.0	Ko	3	..	19003b	100	7429	37.8	-37 44	8.9	8.6	Ao	3	..	41415b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

101800

11^h 37^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6423	37.8	-49 45	9.1	8.7	A2	3	..	13033b	51	1801	38.2	-67 57	8.3	9.4	K2	1	..	38923b
2	6424	37.8	-49 52	9.0	8.3	Ao	5	..	13033b	52	1273	38.2	-71 38	9.6	9.7	A2	2	..	39198b
3	1689	37.8	-64 13	9.0	10.2	K5	1	..	38828b	53	2241	38.3	+42 17	6.81	7.59	G5	7	..	37726i
4	1796	37.8	-67 50	8.3	9.4	K2	1	..	38923b	54	2272	38.3	+37 49	8.9	9.9	Ko	1	0,1	38401i
5	839	37.8	-74 40	6.52	7.2	Go	..	0,10	56,129	55	2180	38.3	+32 19	6.84	7.84	Ko	4	..	38401i
6	2271	37.9	+37 48	9.0	9.6	Go	1	5,1	38656i	56	2034	38.3	+28 7	8.2	9.2	Ko	4	..	38311i
7	2346	37.9	+20 49	9.0	10.0	K	1	..	38229i	57	2494	38.3	+18 49	8.5	8.9	F5	2	..	38229i
8	3225	37.9	- 8 34	7.42	8.20	G5	7	..	41240b	58	3131	38.3	- 4 53	8.5	9.7	K5	3	..	19394b
9	8726	37.9	-26 17	10.1	9.1	Ao	5	..	40319b	59	3312	38.3	-16 49	10.5	11.3	G5	1	..	40314b
10	8258	37.9	-27 18	9.1	10.8	K5	2	..	40319b	60	3452	38.3	-17 47	9.6	10.7	K2	1	..	40314b
11	9293	37.9	-29 28	9.6	10.3	Ko	4	..	40319b	61	3328	38.3	-20 15	8.43	9.0	F8	3	..	13147b
12	7637	37.9	-34 45	8.9	10.0	Ko	1	..	13157b	62	8272	38.3	-32 46	10.4	11.7	F8	1	..	39923b
13	7364	37.9	-37 2	9.2	9.2	F8	2	..	13157b	63	7397	38.3	-35 11	9.13	9.7	G5	2	..	13157b
14	3728	37.9	-59 52	7.62	9.2	K5	2	..	38957b	64	7528	38.3	-44 32	8.4	9.9	K2	2	..	41420b
15	1946	37.9	-63 41	9.6	9.6	Ao	2	..	38798b	65	7325	38.3	-46 42	10.5	10.7	Ao	1	..	19003b
16	660	38.0	+68 9	9.0	9.1	A2	2	..	37554i	66	6287	38.3	-50 34	9.2	9.6	K2	2	..	38406b
17	2347	38.0	+20 55	8.2	9.2	Ko	2	..	38229i	67	3739	38.3	-59 15	8.4	9.6	Ko	1	..	38957b
18	3337	38.0	-15 51	8.6	9.8	K5	1	..	13419b	68	3736	38.3	-59 23	8.4	8.3	B8	5	..	38957b
19	3450	38.0	-17 32	9.3	9.7	F5	3	..	40314b	69	1575	38.3	-69 17	8.5	9.7	K5	1	..	38923b
20	3487	38.0	-21 14	9.3	10.7	Ko	1	..	39950b	70	1150	38.3	-72 12	9.6	9.6	Ao	3	..	39198b
21	8731	38.0	-26 21	10.6	9.6	F2	4	..	40319b	71	1506	38.4	+52 58	7.30	7.36	A2	7	..	38321i
22	7286	38.0	-38 59	8.0	9.2	F2	4	..	41415b	72	2393	38.4	+11 15	8.5	8.6	A5	6	..	13731b
23	7525	38.0	-44 23	8.5	9.0	Ao	6	..	41420b	73	2517	38.4	+ 3 46	9.5	10.3	G5	2	..	19342b
24	6278	38.0	-50 47	9.0	9.5	Ko	2	..	38406b	74	3341	38.4	-16 8	9.1	10.2	K2	5	..	40314b
25	3729	38.0	-60 7	9.10	9.2	B8	1	..	38957b	75	3329	38.4	-19 16	7.12	8.7	K5	3	..	13147b
26	3274	38.0	-60 57	8.5	8.3	B8	4	..	38957b	76	3488	38.4	-20 47	9.6	11.1	K2	1	..	39950b
27	1702	38.0	-65 39	9.3	9.6	Fo	4	..	38798b	77	9910	38.4	-24 12	8.7	10.3	K2	3	..	39950b
28	336	38.1	+82 53	7.82	8.60	G5	4	..	37465i	78	9413	38.4	-30 27	8.4	9.2	Ko	4	..	22921b
29	717	38.1	+67 25	8.8	10.0	K5	2	..	38285i	79	9199	38.4	-31 9	10.1	10.6	Fo	3	..	22921b
30	977	38.1	+63 18	9.5	9.9	F5	2	..	37718i	80	8275	38.4	-32 22	9.3	10.6	Go	2	..	22921b
31	2542	38.1	+ 3 30	10.0	10.4	F5	1	..	19342b	81	7916	38.4	-33 20	7.7	9.7	K2	4	..	22921b
32	3310	38.1	-16 38	8.8	9.8	Ko	4	5,3	39947b	82	7400	38.4	-35 45	9.2	9.2	A5	4	..	13157b
33	9410	38.1	-31 5	10.4	10.3	Ao	3	..	22921b	83	7371	38.4	-36 38	6.12	7.3	K2	8	..	13157b
34	7393	38.1	-35 28	9.0	9.2	Go	3	..	13157b	84	6909	38.4	-40 59	8.0	9.4	K2	4	..	41420b
35	4721	38.1	-54 21	8.7	9.8	K2	1	..	38406b	85	7225	38.4	-45 45	10.9	11.1	Ao	2	..	19003b
36	3732	38.1	-59 31	8.7	8.7	B8	3	..	38957b	86	5977	38.4	-51 15	8.4	9.2	Ko	4	..	38406b
37	2551	38.1	-61 52	8.7	8.4	B5	4	..	38828b	87	4725	38.4	-55 1	8.86	8.9	A3	4	..	38406b
38	2550	38.1	-62 0	8.4	8.3	B3	4	..	38828b	88	4575	38.4	-55 14	9.2	9.3	A2	3	..	38406b
39	1947	38.1	-63 31	7.6	7.5	B5	6	..	38828b	89	4576	38.4	-56 2	8.2	8.6	B3	7	..	40304b
40	862	38.2	+64 44	9.10	9.66	G	2	..	37718i	90	1152	38.4	-72 52	9.0	10.2	K5	1	..	39198b
41	2033	38.2	+28 36	7.40	7.74	F2	6	..	38311i	91	1151	38.4	-72 57	9.9	10.0	A2	1	..	39198b
42	2392	38.2	+11 33	8.6	9.6	Ko	1	..	38357i	92	1400	38.5	+58 58	7.90	8.18	Fo	5	..	37718i
43	2391	38.2	+10 57	8.5	9.7	K5	2	..	13731b	93	1583	38.5	+52 32	9.2	10.2	K	1	..	38321i
44	2533	38.2	+ 4 56	10.3	10.4	A3	3	..	19342b	94	2537	38.5	+ 8 13	9.3	9.8	F8	3	..	13731b
45	2604	38.2	+ 1 19	8.5	8.9	F5	3	..	19342b	95	3228	38.5	- 8 37	9.2	9.8	Go	2	..	41240b
46	2826	38.2	+ 0 44	7.79	7.85	A2	7	..	19342b	96	3430	38.5	-13 28	8.1	9.1	Ko	6	..	21155b
47	7289	38.2	-38 53	8.2	9.2	Go	5	..	41415b	97	3388	38.5	-14 29	6.86	6.86	Ao	10	..	21155b
48	7220	38.2	-45 10	8.8	9.3	A2	5	..	19003b	98	3453	38.5	-17 33	8.1	8.5	F5	7	..	40314b
49	5970	38.2	-51 53	8.2	9.0	Ko	4	..	38406b	99	9051	38.5	-28 48	11.3	11.6	Ko	1	..	40319b
50	3734	38.2	-60 6	9.16	9.0	B8	2	..	38957b	100	7293	38.5	-39 7	10.6	9.4	Go	2	..	41415b

THE HENRY DRAPER CATALOGUE.

101900

11^h 38^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4807	38.5	-52 27	9.8	9.8	Ao	1	..	38406b	51	718	38.9	+66 58	9.1	9.6	F8	1	..	37554i
2	4720	38.5	-53 45	8.1	9.2	Ko	5	..	38406b	52	1344	38.9	+60 10	10.0	10.0	A	1	..	37718i
3	1690	38.5	-64 49	8.4	9.6	K5	3	0,3	38798b	53	2189	38.9	+30 8	8.01	8.09	A3	3	..	38401i
4	848	38.6	+65 31	8.2	8.8	Go	3	2,4	38285i	54	2496	38.9	+19 43	9.35	10.35	K	1	..	38229i
5	2181	38.6	+32 19	8.9	9.3	F5	2	..	38401i	55	2395	38.9	+10 54	8.7	9.0	F2	5	..	13731b
6	2386	38.6	+24 33	7.51	8.51	Ko	4	..	38229i	56	3229	38.9	-8 34	6.84	7.84	Ko	8	..	41240b
7	2392	38.6	+16 53	7.7	8.3	Go	4	..	38229i	57	3350	38.9	-10 4	8.1	8.4	Fo	5	..	21155b
8	10134	38.6	-23 39	9.1	9.1	Ko	5	..	39950b	58	3455	38.9	-18 1	8.5	9.5	Ko	4	..	40314b
9	8271	38.6	-27 37	10.6	9.7	Go	4	..	40319b	59	9302	38.9	-29 11	6.84	7.9	Go	8	..	40319b
10	7534	38.6	-44 26	8.3	9.0	A3	7	..	41420b	60	6750	38.9	-48 14	9.4	9.6	Go	1	..	19003b
11	7329	38.6	-46 33	9.6	10.0	F8	3	..	19003b	61	6749	38.9	-48 32	9.1	9.6	K2	1	..	19003b
12	4719	38.6	-56 38	8.9	9.6	Ao	2	..	38957b	62	5985	38.9	-51 55	9.2	9.0	F8	3	..	38406b
13	1691	38.6	-64 11	9.4	9.4	B9	2	..	38828b	63	4727	38.9	-53 53	8.9	9.3	Ao	4	..	38406b
14	1704	38.6	-65 42	8.2	8.2	B9	7	..	38798b	64	2560	38.9	-61 58	8.3	10.7	Bo	4	R	38828b
15	1274	38.6	-71 53	7.1	7.1	B9	8	..	38923b	65	2249	38.9	-62 40	8.6	8.6	B9	4	..	38828b
16	1153	38.6	-72 36	9.6	9.7	A2	2	..	39198b	66	1804	38.9	-67 55	7.18	7.8	Fo	8	..	38923b
17	677	38.6	-78 45	6.34	7.2	Ko	8	..	13466b	67	1961	39.0	+45 2	7.77	8.19	F5	5	..	37726i
18	2457	38.7	+40 37	8.9	9.9	Ko	1	..	38656i	68	2191	39.0	+30 27	7.81	7.81	Ao	6	..	38401i
19	2562	38.7	-1 48	9.3	10.5	K5	1	..	13418b	69	3167	39.0	-4 15	8.1	8.5	F5	3	0,7	19178b
20	3349	38.7	-9 31	8.5	9.6	K2	3	..	13807b	70	3351	39.0	-10 13	8.91	9.91	Ko	2	..	21155b
21	3313	38.7	-16 59	9.3	9.9	Go	3	..	40314b	71	3391	39.0	-14 54	8.6	9.6	Ko	4	..	21155b
22	9913	38.7	-25 6	9.15	9.6	Fo	5	..	39950b	72	9208	39.0	-31 27	9.3	9.1	Fo	5	..	22921b
23	9053	38.7	-29 7	8.3	8.7	A3	7	..	40319b	73	8282	39.0	-32 50	10.2	11.9	G5	1	..	39923b
24	9201	38.7	-31 35	9.9	9.7	A2	3	..	22921b	74	7404	39.0	-35 44	8.2	8.2	F8	7	..	13157b
25	8279	38.7	-32 40	9.6	11.0	G5	1	..	22921b	75	7543	39.0	-44 41	7.9	9.1	Ko	5	..	41420b
26	6731	38.7	-41 53	10.2	10.3	Ao	2	..	41420b	76	5988	39.0	-52 3	8.4	8.7	Go	4	..	38406b
27	5983	38.7	-52 4	7.2	7.8	Ko	7	..	38406b	77	2465	39.1	+39 34	8.77	9.05	Fo	5	..	38656i
28	4723	38.7	-53 16	8.9	9.2	A2	5	..	38406b	78	2466	39.1	+39 3	8.15	9.33	K5	4	..	38656i
29	4728	38.7	-54 38	8.4	8.4	A2	6	..	38406b	79	2273	39.1	+38 5	8.8	9.8	Ko	1	..	38656i
30	4948	38.7	-57 27	8.4	9.0	Ko	5	..	38957b	80	2250	39.1	+25 47	6.19	7.37	K5	7	..	38311i
31	1275	38.7	-71 30	9.3	10.4	K2	1	..	39198b	81	2331	39.1	+10 39	8.7	9.9	K5	1	..	13731b
32	2394	38.8	+11 14	8.5	9.9	Ma	3	..	13731b	82	2490	39.1	+5 59	9.0	9.5	F8	2	..	13731b
33	3340	38.8	-6 7	6.23	7.23	Ko	6	0,10	19178b	83	2535	39.1	+4 50	9.51	10.58	K2	2	..	19342b
34	3343	38.8	-16 12	8.7	8.8	A5	4	..	40314b	84	3132	39.1	-5 1	8.7	9.7	Ko	3	..	19394b
35	3454	38.8	-17 55	9.6	10.6	Ko	1	..	40314b	85	3315	39.1	-16 35	8.6	9.7	K2	4	..	40314b
36	3492	38.8	-20 29	7.28	8.0	Fo	7	..	13147b	86	3369	39.1	-22 0	8.7	9.6	G5	6	..	39950b
37	9914	38.8	-24 16	10.8	10.7	F8	2	..	39950b	87	8836	39.1	-25 55	9.1	10.2	F8	4	..	39950b
38	9206	38.8	-31 25	10.8	11.7	K5	1	..	39923b	88	8741	39.1	-26 19	8.9	9.0	A2	6	..	40319b
39	7919	38.8	-33 12	9.6	11.2	F8	1	..	22921b	89	7376	39.1	-36 12	8.9	9.4	A3	3	..	13157b
40	7647	38.8	-34 41	9.5	9.5	Go	1	..	13157b	90	7084	39.1	-47 25	10.0	9.9	Fo	2	..	19003b
41	7297	38.8	-38 21	7.7	8.1	F8	6	..	41415b	91	4587	39.1	-55 30	8.8	9.8	Ko	2	..	38406b
42	7539	38.8	-44 45	10.9	10.5	Ao	2	..	41420b	92	3754	39.1	-59 27	8.5	8.7	F8	3	..	38957b
43	7081	38.8	-47 22	9.6	9.9	Ao	3	..	19003b	93	2565	39.1	-61 57	8.9	10.1	B	4	R	38828b
44	7080	38.8	-48 6	9.8	10.8	Ko	1	..	19003b	94	2567	39.1	-61 57	8.9	8.9				
45	4720	38.8	-56 13	8.4	8.6	Ao	7	..	40304b	95	2250	39.1	-62 19	6.22	6.7	Ao	..	2,2	56,130
46	3750	38.8	-59 34	8.5	8.7	B9	3	..	38957b	96	1695	39.1	-64 20	9.9	9.9	A	1	..	38828b
47	2559	38.8	-61 56	5.18	6.4	F8p	..	2,8R	28,206	97	373	39.2	+78 47	8.8	9.6	G5	2	..	37465i
48	1276	38.8	-71 27	9.8	9.9	A3	2	..	39198b	98	2079	39.2	+49 4	7.8	8.9	K2	5	..	37726i
49	727	38.8	-77 40	8.1	9.1	Ko	3	..	21530b	99	2459	39.2	+40 2	8.9	9.2	F2	2	..	38656i
50	532	38.9	+73 42	7.24	8.31	K2	7	0,8	37742i	100	2396	39.2	+21 56	8.4	9.4	Ko	2	..	38229i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

102000

11^h 39^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	3457	39.2	-17 49	10.0	11.0	Ko	1	..	40314b	51	7191	39.5	-42 16	9.8	10.0	Ao	4	..	41420b
2	3204	39.2	-22 28	9.2	9.6	Fo	6	..	39950b	52	6766	39.5	-48 8	9.6	9.3	F8	3	..	19003b
3	7927	39.2	-33 54	9.2	10.0	F5	1	..	13157b	53	2576	39.5	-62 0	8.8	8.7	Ao	5	..	38828b
4	7545	39.2	-45 1	8.38	9.9	K5	3	..	41420b	54	1154	39.5	-72 19	9.3	10.1	G5	2	..	39198b
5	7085	39.2	-47 39	10.2	10.0	A5	2	..	19003b	55	2275	39.6	+38 29	8.7	9.3	Go	3	..	38656i
6	4734	39.2	-54 50	9.0	9.0	A2	4	..	38406b	56	2206	39.6	+29 13	6.98	6.98	Ao	7	0,8	37531i
7	4958	39.2	-57 43	8.3	9.3	G5	1	..	38957b	57	2381	39.6	+22 47	10.0	10.8	G5	1	..	38229i
8	2570	39.2	-61 35	8.9	8.4	B8	4	..	38828b	58	2830	39.6	+ 0 28	9.3	10.5	K5	1	..	19342b
9	2571	39.2	-61 59	8.9	8.4	B8	3	..	38828b	59	3169	39.6	- 3 57	8.3	8.6	F2	3	3,7	19178b
10	2251	39.2	-62 49	9.0	9.0	B9	2	..	38828b	60	3335	39.6	-19 52	9.1	10.0	Ko	4	..	40314b
11	1696	39.2	-64 15	9.0	10.2	K5	1	..	38828b	61	6312	39.6	-50 12	8.6	9.5	Ko	1	..	13033b
12	1558	39.2	-68 24	8.6	9.1	F8	2	..	38923b	62	3763	39.6	-59 26	9.2	9.2	A	1	..	38957b
13	1459	39.3	+54 13	8.2	9.0	G5	2	..	38321i	63	3297	39.6	-60 56	9.3	9.3	Ao	2	..	38957b
14	2380	39.3	+22 56	8.9	10.0	K2	1	..	38229i	64	1579	39.6	-69 31	9.3	9.3	Ao	2	..	38923b
15	2539	39.3	+ 8 50	8.7	8.8	A3	7	..	13731b	65	648	39.6	-79 55	6.60	6.4	B9	8	..	13466b
16	2828	39.3	+ 0 10	9.7	10.8	K2	2	..	19342b	66	2372	39.7	+11 57	8.9	9.7	G5	3	..	38357i
17	3206	39.3	-22 35	9.8	10.2	Go	4	..	39950b	67	2542	39.7	+ 9 34	8.7	9.9	K5	3	..	13731b
18	3205	39.3	-23 12	9.8	10.8	Ko	1	..	39950b	68	2520	39.7	+ 4 7	10.7	11.2	F8	1	..	19342b
19	8747	39.3	-26 52	9.4	10.8	K5	2	..	40319b	69	3232	39.7	- 8 36	9.1	9.7	Go	3	..	13807b
20	9307	39.3	-29 25	9.7	10.9	Ko	2	..	40319b	70	3460	39.7	-17 48	4.90	5.68	G5	..	R	56,88
21	9420	39.3	-31 4	8.7	8.8	A3	7	..	22921b	71	9311	39.7	-29 19	8.3	8.8	Ko	6	..	40319b
22	8286	39.3	-33 2	9.8	10.2	F5	1	..	39923b	72	8293	39.7	-32 42	9.8	11.7	G5	1	..	39923b
23	7279	39.3	-39 17	8.2	9.4	Go	4	..	41415b	73	7445	39.7	-37 35	9.6	9.5	F5	2	..	13157b
24	7235	39.3	-45 54	9.2	10.5	G5	3	..	19003b	74	6740	39.7	-41 14	9.0	10.0	Ko	1	..	41420b
25	4821	39.3	-53 7	8.8	9.0	Ao	5	..	38406b	75	7238	39.7	-45 34	9.0	9.9	Ao	5	..	19003b
26	4730	39.3	-53 11	8.3	8.4	A2	7	..	38406b	76	6769	39.7	-48 35	7.3	8.0	Ko	8	..	19003b
27	4736	39.3	-54 19	9.1	9.8	F8	2	..	38406b	77	6770	39.7	-48 51	9.2	8.9	Ko	4	..	19003b
28	3755	39.3	-59 54	8.7	8.4	F8	3	..	38957b	78	1461	39.8	+54 31	8.2	8.2	Ao	4	..	38321i
29	363	39.4	+80 34	9.5	10.0	F8	2	..	37465i	79	2467	39.8	+38 53	8.8	9.6	G5	1	..	38656i
30	1347	39.4	+60 36	7.9	9.0	K2	3	..	37718i	80	2037	39.8	+27 57	8.2	8.6	F5	3	..	38311i
31	2348	39.4	+21 30	8.8	9.9	K2	1	..	38229i	81	2644	39.8	+20 4	8.2	8.3	A3	4	..	38229i
32	3278	39.4	- 7 32	8.7	9.5	G5	3	..	13807b	82	2447	39.8	+12 49	8.9	10.0	K2	1	..	38357i
33	3433	39.4	-13 34	9.2	9.7	F8	2	..	21155b	83	2544	39.8	+ 3 37	8.7	8.8	A5	6	..	19342b
34	3347	39.4	-16 3	8.9	9.0	A5	5	..	40314b	84	2563	39.8	- 1 29	9.0	9.5	F8	3	..	13418b
35	3458	39.4	-17 55	9.8	10.8	Ko	1	..	40314b	85	3482	39.8	-13 10	9.3	9.9	Go	1	..	21155b
36	3333	39.4	-20 8	6.79	7.6	Ao	10	..	13147b	86	7933	39.8	-33 39	10.2	11.8	Ao	2	..	39923b
37	8278	39.4	-27 28	9.1	10.7	Ma	2	..	40319b	87	5997	39.8	-51 58	10.0	9.2	Fo	2	..	38406b
38	9059	39.4	-28 34	10.6	10.8	Go	2	..	40319b	88	3298	39.8	-60 17	7.86	9.2	K5	2	..	38957b
39	8287	39.4	-32 26	9.8	11.7	Go	1	..	22921b	89	1156	39.8	-72 45	8.4	9.0	Go	5	..	39198b
40	4959	39.4	-57 53	7.6	9.2	K2	3	..	38957b	90	457	39.9	+75 21	10.5	11.3	G5	2	..	4907m
41	1697	39.4	-64 42	9.8	9.8	Ao	1	..	38798b	91	2400	39.9	+22 6	9.7	10.7	K	1	..	38229i
42	1806	39.4	-67 23	9.3	9.3	Ao	2	..	38923b	92	2394	39.9	+17 43	8.6	9.7	K2	2	..	38229i
43	1805	39.4	-67 35	8.9	9.0	A2	5	..	38923b	93	2289	39.9	+15 53	8.5	9.6	K2	1	..	38357i
44	674	39.5	+70 29	7.62	7.68	A2	6	..	37554i	94	2543	39.9	+ 9 43	8.97	10.15	K5	3	..	13731b
45	719	39.5	+67 25	8.0	9.0	Ko	2	..	37554i	95	2545	39.9	+ 2 54	8.7	9.9	K5	4	..	19342b
46	2543	39.5	+ 3 24	10.0	10.8	G5	1	..	19342b	96	2831	39.9	+ 0 1	7.35	8.35	Ko	7	..	13418b
47	2479	39.5	- 0 50	8.5	9.9	Ma	3	0,2	19394b	97	2482	39.9	- 0 17	9.7	10.5	G5	2	..	19342b
48	3279	39.5	- 7 16	8.7	9.9	K5	2	..	13807b	98	7414	39.9	-35 51	7.8	8.3	Go	8	..	13157b
49	3331	39.5	-10 24	9.31	9.87	Go	2	..	21155b	99	5998	39.9	-51 34	9.6	9.2	Ao	4	..	38406b
50	7444	39.5	-37 55	9.2	9.7	Ao	2	..	13157b	100	4597	39.9	-55 16	7.80	9.0	K2	5	..	38406b

THE HENRY DRAPER CATALOGUE.

102100

11^h 39^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3765	39.9	-59 50	7.54	7.2	B5	6	..	38957b	51	4742	40.3	-53 52	9.1	10.0	Ko	1	..	38406b
2	2121	40.0	+43 47	8.0	8.3	Fo	4	..	37726i	52	3304	40.3	-60 57	9.1	8.6	Ao	3	..	38957b
3	2374	40.0	+14 49	6.76	7.76	Ko	6	..	38229i	53	2264	40.3	-62 59	9.0	8.9	B5	4	..	38828b
4	2539	40.0	+ 8 23	9.3	9.7	F5	3	..	13731b	54	1561	40.3	-68 48	9.2	9.2	B8	2	..	38923b
5	2474	40.0	+ 2 8	7.9	9.1	K5	3	..	19342b	55	1157	40.3	-72 35	7.5	8.5	Ko	8	..	39198b
6	2608	40.0	+ 1 27	7.7	8.8	K2	4	..	19342b	56	885	40.3	-73 23	7.9	9.1	K5	5	..	39198b
7	3336	40.0	-19 21	10.2	11.1	Ko	1	..	40314b	57	731	40.3	-77 16	8.6	9.8	K5	2	..	21530b
8	9217	40.0	-31 13	8.1	9.1	K2	5	..	22921b	58	1964	40.4	+48 13	8.0	8.6	Go	4	..	37726i
9	7447	40.0	-37 47	8.9	8.8	F8	5	..	13157b	59	2216	40.4	+36 26	7.23	8.58	Mb	4	..	38401i
10	6923	40.0	-41 1	10.2	10.0	Ao	3	..	41420b	60	2293	40.4	+31 2	8.0	9.0	Ko	2	..	38401i
11	7270	40.0	-44 3	7.8	9.1	G5	5	..	41420b	61	2411	40.4	+25 41	8.3	9.1	G5	2	..	38311i
12	6318	40.0	-51 1	7.4	8.1	Ao	8	..	38406b	62	2522	40.4	+ 4 43	9.7	10.0	F2	4	..	19342b
13	4743	40.0	-54 54	7.50	8.1	Ao	7	..	38406b	63	2548	40.4	+ 3 12	8.5	9.5	Ko	6	..	19342b
14	4599	40.0	-55 26	9.0	9.0	Ao	4	..	38406b	64	3336	40.4	-10 55	9.2	9.8	Go	2	..	21155b
15	4600	40.0	-56 2	8.8	10.0	Ma	1	..	40304b	65	3500	40.4	-20 55	7.6	8.5	F5	5	..	13147b
16	4964	40.0	-57 42	8.5	9.2	Go	2	..	38957b	66	3499	40.4	-21 3	9.3	10.7	Go	2	..	39950b
17	3823	40.0	-58 9	7.3	8.0	G5	5	..	38957b	67	3371	40.4	-21 37	9.3	10.7	Ko	1	..	39950b
18	3821	40.0	-58 48	8.0	8.0	A2	5	..	38957b	68	3372	40.4	-21 41	9.3	9.7	K2	2	..	13147b
19	3299	40.0	-60 38	9.6	9.6	Ao	1	..	38957b	69	3210	40.4	-22 27	9.2	10.2	Go	1	..	13147b
20	172	40.1	+86 5	8.4	9.4	Ko	4	5.4	37793i	70	9929	40.4	-24 26	9.1	9.9	Ko	5	..	39950b
21	731	40.1	+66 5	8.2	9.0	G5	2	..	37554i	71	8287	40.4	-27 49	8.4	9.0	F2	6	R	40319b
22	2645	40.1	+20 28	7.42	8.42	Ko	5	..	38229i	72	8287	40.4	-27 49	8.4	9.0	A3	6	R	40319b
23	2544	40.1	+ 9 12	10.0	11.1	K2	1	..	13731b	73	7419	40.4	-35 48	8.3	8.3	A5	6	..	13157b
24	2545	40.1	+ 8 49	5.06	5.14	A3	..	1,9 R	56,88	74	7284	40.4	-39 57	7.11	7.9	Ko	7	..	41420b
25	3229	40.1	-18 20	9.3	9.9	Go	2	..	40314b	75	7273	40.4	-44 5	8.5	9.6	Ko	3	..	41420b
26	8284	40.1	-27 37	12.0	10.8	Fo	1	..	40319b	76	6003	40.4	-51 35	8.2	8.7	Ko	4	..	38406b
27	8294	40.1	-33 4	9.6	11.2	F8	1	..	22921b	77	2590	40.4	-61 29	8.8	9.5	F8	2	..	38828b
28	625	40.2	+69 28	8.6	9.6	Ko	1	..	38683i	78	2267	40.4	-63 1	9.3	9.7	F5	2	..	38828b
29	1463	40.2	+54 20	8.6	9.4	G5	1	..	38321i	79	886	40.4	-73 30	9.6	9.6	Ao	3	..	39198b
30	1744	40.2	+46 10	8.0	8.3	Fo	5	..	37726i	80	2494	40.5	+ 6 3	8.5	8.9	F5	5	..	13731b
31	2290	40.2	+16 17	8.9	9.7	G5	2	R	38229i	81	2523	40.5	+ 4 27	10.7	11.7	Ko	1	..	19342b
32	2431	40.2	+13 52	8.7	9.9	K5	1	..	38357i	82	3234	40.5	- 8 52	9.6	9.6	Ao	3	..	13807b
33	3346	40.2	- 5 57	8.3	9.3	Ko	3	..	13807b	83	9318	40.5	-29 56	8.9	9.1	F5	5	..	22921b
34	10152	40.2	-23 55	9.3	10.2	Ko	4	..	39950b	84	7394	40.5	-37 3	8.2	8.3	F2	7	..	13157b
35	7940	40.2	-33 44	10.2	10.8	Go	1	..	39923b	85	6930	40.5	-41 3	8.9	10.3	K5	1	..	41420b
36	6927	40.2	-40 11	9.6	10.1	Ko	2	..	41420b	86	6751	40.5	-41 31	9.2	9.1	Ao	6	..	41420b
37	4746	40.2	-54 34	9.9	10.0	A2	1	..	38406b	87	7100	40.5	-47 54	9.6	10.8	Ko	1	..	19003b
38	4604	40.2	-56 1	10.0	10.0	Ao	1	..	40304b	88	4750	40.5	-57 1	9.0	9.8	G5	1	..	38957b
39	2584	40.2	-61 15	9.3	9.2	B5	3	..	38828b	89	2594	40.5	-61 22	9.1	9.2	B3	3	..	38828b
40	1698	40.2	-64 12	9.4	9.4	Ao	2	..	38828b	90	2597	40.5	-61 56	8.3	9.0	Fo	4	..	38828b
41	884	40.2	-73 13	9.6	10.0	F5	2	..	39198b	91	1810	40.5	-67 8	8.7	8.7	Ao	4	..	38923b
42	2039	40.3	+27 46	7.34	8.12	G5	6	..	38311i	92	1582	40.5	-69 24	9.0	9.0	Ao	3	..	38923b
43	2477	40.3	+ 7 35	7.8	8.8	Ko	8	..	13731b	93	..	40.6	+75 26	..	..	K	1	..	4907m
44	10153	40.3	-23 50	10.6	10.8	Ko	2	..	39950b	94	1333	40.6	+58 35	8.0	8.8	G5	3	..	37718i
45	8843	40.3	-25 27	9.6	10.5	F8	3	..	39950b	95	2549	40.6	+ 3 23	8.5	9.5	Ko	7	..	19342b
46	8842	40.3	-25 41	9.1	9.6	Go	6	..	39950b	96	3349	40.6	-15 32	8.10	8.66	Go	7	..	40314b
47	9223	40.3	-31 9	9.7	10.6	Ko	1	..	22921b	97	3211	40.6	-22 26	8.8	9.7	F8	3	..	13147b
48	7658	40.3	-34 15	8.9	9.7	K5	1	..	13157b	98	7661	40.6	-35 3	7.53	8.8	Ko	4	..	13157b
49	7416	40.3	-35 50	8.2	8.5	Ko	3	..	13157b	99	7560	40.6	-44 19	8.4	9.6	Ko	4	..	41420b
50	6777	40.3	-48 31	6.27	7.6	Ko	9	..	19003b	100	7249	40.6	-45 30	9.0	9.6	F5	6	..	19003b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

102200

11^h 40^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7356	40.6	-46 40	8.2	9.1	G5	6	..	19003b	51	1542	41.0	+55 54	8.3	9.3	Ko	1	..	38321i
2	6783	40.6	-48 27	9.2	9.2	G5	3	..	19003b	52	1485	41.0	+55 0	9.0	10.0	K	1	..	38321i
3	6784	40.6	-49 4	10.5	9.5	A2	1	..	19003b	53	2480	41.0	+ 7 44	7.08	8.43	Ma	7	..	13731b
4	4969	40.6	-57 34	9.1	9.5	A2	3	..	38957b	54	3349	41.0	- 6 5	8.5	9.3	G5	3	..	13807b
5	3310	40.6	-60 8	9.8	9.8	Ao	1	..	38957b	55	9077	41.0	-29 2	9.6	11.4	Ko	1	..	40319b
6	2271	40.6	-62 38	9.8	9.8	Ao	1	..	38828b	56	7455	41.0	-37 35	8.2	9.1	G5	5	..	13157b
7	1638	40.6	-66 39	9.7	9.7	Ao	3	..	38923b	57	7205	41.0	-43 1	9.1	10.5	Ko	1	..	41420b
8	2212	40.7	+36 51	8.4	9.2	G5	1	..	38401i	58	4852	41.0	-52 45	8.4	8.6	Ao	5	..	38406b
9	2376	40.7	+15 35	9.3	9.7	F5	1	..	38229i	59	1704	41.0	-64 21	9.7	10.3	Go	1	..	38798b
10	2433	40.7	+14 11	8.5	9.0	F8	2	..	38357i	60	736	41.0	-78 3	8.8	9.8	Ko	2	..	13467b
11	2478	40.7	+ 7 30	8.1	8.4	F2	8	..	13731b	61	458	41.1	+75 38	10.0	11.0	Ko	2	..	4907m
12	2479	40.7	+ 7 5	4.20	5.55	Ma	..	R	1824c	62	1587	41.1	+52 29	7.63	8.41	G5	5	..	38321i
13	2495	40.7	+ 5 47	8.7	9.8	K2	3	..	13731b	63	2499	41.1	+19 15	8.7	9.3	Go	2	..	38229i
14	9432	40.7	-30 24	8.3	9.1	K2	6	..	22921b	64	2477	41.1	+ 2 5	8.9	9.3	F5	3	..	19342b
15	9433	40.7	-31 6	11.3	12.5	K5	1	..	39923b	65	2833	41.1	+ 0 22	8.9	9.4	F8	4	..	19342b
16	9228	40.7	-31 25	9.9	10.6	Ko	2	..	22921b	66	3443	41.1	- 7 13	8.6	9.1	F8	3	..	13807b
17	7291	40.7	-40 6	9.2	9.4	A2	3	..	41420b	67	9078	41.1	-28 27	10.1	10.7	Go	2	..	40319b
18	6786	40.7	-49 0	8.8	8.3	F2	6	..	19003b	68	7206	41.1	-42 31	10.0	10.0	Ao	2	..	41420b
19	6461	40.7	-49 17	7.8	8.0	F5	7	..	19003b	69	4759	41.1	-54 29	8.6	9.2	Ko	4	..	38406b
20	4970	40.7	-57 19	9.5	9.5	Ao	2	..	38957b	70	3780	41.1	-59 58	9.50	9.3	Fo	1	..	38957b
21	3775	40.7	-59 58	8.90	9.8	K2	1	..	38957b	71	687	41.1	-76 13	8.9	10.0	K2	1	..	39198b
22	..	40.8	+73 9	..	..	K2	1	..	4907m	72	2434	41.2	+14 41	8.66	9.73	K2	2	..	38357i
23	1693	40.8	+51 7	7.65	7.93	Fo	6	..	38321i	73	2550	41.2	+ 3 26	10.0	10.5	F8	1	..	19342b
24	1966	40.8	+48 20	3.85	4.85	Ko	..	R	1653c	74	3410	41.2	- 2 27	7.68	8.68	Ko	7	..	13418b
25	2462	40.8	+40 37	9.6	10.1	F8	1	..	38656i	75	3176	41.2	-11 28	8.1	8.2	A3	7	..	21155b
26	2461	40.8	+39 57	8.2	9.3	K2	3	..	38656i	76	9940	41.2	-24 19	7.63	9.3	Mb	6	..	39950b
27	2450	40.8	+13 11	8.9	9.9	Ko	1	..	38357i	77	4616	41.2	-55 47	8.7	9.0	Ao	3	..	40304b
28	2540	40.8	+ 8 20	8.5	9.5	Ko	6	..	13731b	78	4758	41.2	-56 48	8.4	8.9	A2	5	..	38957b
29	3465	40.8	-17 38	9.8	11.0	K5	1	..	40314b	79	4760	41.2	-56 53	9.0	9.5	F8	3	..	38957b
30	9934	40.8	-24 32	9.7	10.5	Ko	3	..	39950b	80	4971	41.2	-57 32	8.9	8.6	B5	5	..	38957b
31	9227	40.8	-31 42	9.3	9.7	G5	4	..	22921b	81	2607	41.2	-61 25	9.0	9.5	Ao	3	..	38828b
32	7564	40.8	-45 8	5.44	5.39	B8	..	..	28,206	82	1352	41.3	+59 45	8.01	8.09	A3	5	..	37718i
33	7104	40.8	-47 42	9.2	9.3	A3	5	..	19003b	83	2435	41.3	+14 15	8.5	9.1	Go	4	..	38357i
34	6787	40.8	-48 40	9.6	9.2	Fo	3	..	19003b	84	3137	41.3	- 4 47	8.1	8.4	Fo	5	..	13807b
35	6012	40.8	-52 8	7.9	8.6	F2	6	..	38406b	85	3337	41.3	-11 7	9.2	9.3	A2	4	..	21155b
36	3312	40.8	-60 38	8.4	8.6	Ao	5	..	38957b	86	3234	41.3	-18 18	9.8	9.9	A5	2	..	40314b
37	2601	40.8	-61 45	8.6	8.6	Ao	4	..	38828b	87	8765	41.3	-26 30	9.6	10.2	G5	4	..	40319b
38	1424	40.8	-70 41	7.7	8.5	G5	6	..	38923b	88	7672	41.3	-34 11	7.50	7.5	Ao	8	..	13157b
39	1423	40.8	-71 3	8.4	8.4	Ao	5	..	38923b	89	7259	41.3	-45 40	8.9	9.0	G	..	..	..
40	888	40.8	-73 41	9.2	10.4	K5	1	..	39198b	90	7260	41.3	-45 41	8.6	9.1	Go	5	..	13033b
41	843	40.8	-74 19	8.5	8.5	Ao	5	..	39198b	91	7110	41.3	-47 39	8.2	9.3	Ma	4	..	19003b
42	2463	40.9	+39 59	8.7	9.7	Ko	2	..	38656i	92	7112	41.3	-47 43	9.4	10.2	G5	3	..	19003b
43	2353	40.9	+20 53	8.3	9.1	G5	5	..	38229i	93	688	41.3	-76 18	8.0	8.0	Ao	8	..	39198b
44	2568	40.9	- 1 54	10.3	10.8	F8	2	..	13418b	94	..	41.4	+73 24	..	..	Go	2	..	4907m
45	7949	40.9	-33 16	8.9	10.9	Go	3	..	22921b	95	1354	41.4	+60 24	8.8	9.6	G5	2	..	37718i
46	7948	40.9	-33 40	9.8	11.8	F8	1	..	39923b	96	2377	41.4	+15 31	8.7	9.7	Ko	1	E	38357i
47	6464	40.9	-49 23	8.5	8.1	Ao	8	..	19003b	97	2610	41.4	+ 0 54	9.7	10.0	F2	2	..	19342b
48	3314	40.9	-60 53	8.4	7.7	B	4	R	38957b	98	3212	41.4	-22 31	7.9	9.6	Ko	3	..	13147b
49	1640	40.9	-66 10	3.80	3.94	A5	..	2,7 R	28,206	99	9941	41.4	-24 10	10.1	11.1	Ko	2	..	39950b
50	432	41.0	+76 17	9.7	10.2	F8	4	..	4907m	100	9943	41.4	-24 25	7.68	8.4	Go	8	..	39950b

THE HENRY DRAPER CATALOGUE.

102300

11^h41^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8294	41.4	-27 24	7.57	8.4	F8	8	..	40319b	51	2286	41.7	-62 35	9.6	9.6	B8	2	..	38828b
2	9326	41.4	-29 28	10.6	11.4	G5	2	..	40319b	52	1963	41.7	-63 30	10.2	10.0	B	1	..	38798b
3	4974	41.4	-57 26	9.2	9.2	Ao	3	..	38957b	53	1705	41.7	-65 2	9.03	9.7	B9	4	..	38828b
4	1960	41.4	-63 18	10.3	10.3	B9	1	..	38798b	54	1427	41.7	-70 21	8.36	8.7	Ao	4	..	38923b
5	1564	41.4	-68 14	8.3	9.1	G5	2	..	38923b	55	1198	41.8	+61 58	6.64	6.92	Fo	9	..	37718i
6	..	41.4	-71 39	..	..	K2	1	..	39198b	56	1355	41.8	+60 33	8.9	9.4	F8	3	..	37718i
7	2393	41.5	+23 58	9.6	10.6	Ko	1	..	38311i	57	2394	41.8	+24 16	6.85	7.27	F5	6	..	38229i
8	2385	41.5	+23 0	9.6	10.4	G5	1	..	38229i	58	3361	41.8	-9 43	9.3	10.4	K2	1	..	13807b
9	3402	41.5	-14 23	9.1	10.3	K5	1	..	13419b	59	3324	41.8	-16 59	9.3	10.1	G5	2	..	40314b
10	10162	41.5	-23 55	7.46	9.0	Ma	6	..	39950b	60	3239	41.8	-18 21	9.8	10.9	K2	1	..	40314b
11	9082	41.5	-28 13	9.1	9.9	Go	4	..	40319b	61	3504	41.8	-20 55	7.7	9.0	F8	4	..	13147b
12	9081	41.5	-28 44	9.3	10.5	Ko	3	..	40319b	62	3378	41.8	-21 59	9.6	10.7	K2	1	..	39950b
13	9327	41.5	-29 17	10.1	11.9	K5	1	..	40319b	63	9083	41.8	-28 48	8.9	9.6	Ko	5	..	40319b
14	9238	41.5	-31 37	11.1	11.9	F5	1	..	39923b	64	9240	41.8	-31 29	10.6	11.9	G5	1	..	39923b
15	7461	41.5	-37 35	8.9	9.2	A5	3	..	13157b	65	7301	41.8	-39 57	5.04	5.82	G5	..	R	56,130
16	7209	41.5	-42 50	8.5	9.7	K2	2	..	41420b	66	4859	41.8	-52 36	8.9	9.2	Go	3	..	38406b
17	7114	41.5	-48 0	9.0	9.6	F8	4	..	19003b	67	4981	41.8	-58 4	8.8	8.6	Ao	5	..	38957b
18	6343	41.5	-50 59	9.2	9.8	K5	1	..	40304b	68	2611	41.8	-61 31	8.3	8.1	B2	7	..	38828b
19	4756	41.5	-53 37	8.4	8.6	F5	5	R	38406b	69	1964	41.8	-63 36	9.8	9.8	Ao	1	..	38798b
20	4756	41.5	-53 37	8.4	8.6	A3	5	R	38406b	70	1706	41.8	-64 12	7.05	7.1	B8	8	..	38828b
21	4765	41.5	-54 11	9.0	10.0	K5	1	..	38406b	71	1712	41.8	-66 6	9.4	9.8	F5	3	..	38923b
22	4764	41.5	-55 6	8.7	8.7	Ao	7	..	38406b	72	1641	41.8	-66 18	9.6	9.7	A2	3	..	38923b
23	4620	41.5	-55 49	8.2	8.9	Ao	4	..	40304b	73	441	41.9	+76 47	8.8	9.2	F5	7	3,2	4907m
24	4978	41.5	-57 20	9.0	9.0	B8	4	..	38957b	74	866	41.9	+64 42	9.10	9.66	G	3	..	37718i
25	1158	41.5	-73 3	7.4	7.4	B9	8	..	39198b	75	2540	41.9	+5 39	8.4	9.4	Ko	5	..	19342b
26	440	41.6	+77 36	8.9	9.4	F8	2	..	37465i	76	2539	41.9	+5 26	8.5	9.6	K2	5	..	19342b
27	851	41.6	+64 57	7.45	7.45	Ao	6	2,8	37554i	77	2490	41.9	-1 5	8.7	9.0	F2	5	..	13418b
28	1544	41.6	+56 11	5.41	6.41	Ko	8	..	38321i	78	3338	41.9	-10 24	8.66	9.00	F2	3	..	21155b
29	2526	41.6	+4 1	8.1	9.1	Ko	6	..	19342b	79	10164	41.9	-23 22	9.9	10.0	Go	3	..	39950b
30	2551	41.6	+3 26	10.7	11.3	Go	1	..	19342b	80	8771	41.9	-26 30	9.9	11.1	K2	1	..	40319b
31	3411	41.6	-3 11	7.50	7.84	F2	8	..	13418b	81	9085	41.9	-28 43	10.8	11.1	Go	2	..	40319b
32	3173	41.6	-4 8	8.7	9.1	F5	5	..	13418b	82	7955	41.9	-33 37	9.5	10.6	A5	2	..	22921b
33	3235	41.6	-18 27	8.9	8.9	Ao	5	..	40314b	83	6947	41.9	-40 44	9.8	9.4	Ao	5	..	41420b
34	8767	41.6	-26 54	11.3	10.3	B8	2	R	40319b	84	7371	41.9	-46 37	9.6	9.6	F5	4	..	19003b
35	9445	41.6	-30 22	8.20	9.4	K2	6	..	22921b	85	7370	41.9	-46 55	8.5	9.6	K5	3	..	19003b
36	9239	41.6	-31 47	9.6	9.7	F5	4	..	22921b	86	2615	41.9	-61 44	7.7	9.2	K2	3	..	38828b
37	7954	41.6	-33 48	9.2	10.4	K5	1	..	39923b	87	1817	41.9	-67 19	9.6	9.4	B3	2	..	38923b
38	7368	41.6	-46 19	10.0	10.5	Ao	2	..	19003b	88	1583	41.9	-69 43	9.1	9.1	Ao	2	..	38923b
39	7117	41.6	-47 41	10.5	10.5	F5	1	..	19003b	89	2648	42.0	+19 52	8.05	8.11	A2	6	..	38229i
40	4979	41.6	-57 28	7.9	8.0	B8	7	..	38957b	90	2480	42.0	+2 5	9.3	10.1	G5	2	..	19342b
41	1280	41.6	-71 46	9.3	10.4	K2	1	..	39198b	91	3140	42.0	-4 37	8.1	9.3	K5	2	..	13807b
42	1464	41.7	+53 50	8.6	9.2	G	1	..	38321i	92	3178	42.0	-11 16	9.1	10.2	K2	1	..	21155b
43	2378	41.7	+15 33	7.9	8.0	A5	4	..	38229i	93	3342	42.0	-19 32	10.6	10.8	F8	1	..	40314b
44	2498	41.7	+6 5	8.5	9.5	Ko	3	..	13731b	94	8858	42.0	-25 52	9.9	10.7	Ko	3	..	40319b
45	3469	41.7	-17 19	9.3	9.4	A2	3	..	40314b	95	8298	42.0	-27 28	10.1	10.3	F8	3	..	40319b
46	3237	41.7	-18 55	8.1	8.7	Go	7	..	40314b	96	9332	42.0	-29 56	9.1	9.1	F8	6	..	22921b
47	9447	41.7	-30 34	10.6	10.6	A5	2	..	22921b	97	7438	42.0	-35 21	6.26	7.2	Ko	..	0,10	56,130
48	6802	41.7	-48 17	8.9	9.2	Ko	3	..	19003b	98	7435	42.0	-35 51	10.2	9.4	F2	3	..	13157b
49	3786	41.7	-59 40	8.9	10.1	Ko	1	..	38957b	99	3330	42.0	-60 29	8.2	8.1	B8	5	..	38957b
50	3325	41.7	-60 37	4.22	4.78	Go	..	5,4 R	28,206	100	2616	42.0	-61 47	9.1	9.0	B5	2	..	38828b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

102400

11^h 42^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1584	m. 42.0	° -69 34	8.8	9.3	F8	3	..	38923b	51	9952	m. 42.4	° -24 16	10.4	11.1	Ko	2	..	39950b
2	846	42.0	-74 33	8.8	9.1	F2	3	..	39198b	52	8865	42.4	-25 59	9.6	11.4	K5	2	..	40319b
3	1336	42.1	+58 30	8.7	9.2	F8	2	..	37718i	53	9090	42.4	-28 11	10.8	11.4	Go	1	..	40319b
4	2418	42.1	+24 59	7.96	8.96	Ko	4	..	38311i	54	9454	42.4	-30 41	8.1	7.3	B9	9	..	22921b
5	2529	42.1	+18 25	9.3	10.1	G5	1	..	38229i	55	9250	42.4	-31 50	9.9	10.6	F5	2	..	22921b
6	2454	42.1	+13 13	7.9	8.0	A5	6	..	38357i	56	7958	42.4	-33 20	7.99	9.7	K2	5	..	22921b
7	3379	42.1	-21 43	8.7	10.2	Ko	1	..	13147b	57	7278	42.4	-45 47	8.6	8.7	A3	5	..	19003b
8	8860	42.1	-25 25	8.9	10.2	K5	2	..	13147b	58	6484	42.4	-49 19	9.6	9.2	G5	3	..	19003b
9	8299	42.1	-27 39	10.6	11.4	K5	1	..	40319b	59	4868	42.4	-53 6	8.6	8.3	A2	4	..	38406b
10	9086	42.1	-28 52	11.6	11.6	Go	1	..	40319b	60	4773	42.4	-54 41	9.1	9.5	A2	3	..	38406b
11	8309	42.1	-32 34	9.6	10.3	A2	4	..	22921b	61	4989	42.4	-57 8	5.44	7.7	K5	..	0,9	56,130
12	8310	42.1	-33 2	8.1	8.1	A2	9	..	22921b	62	3800	42.4	-59 30	8.2	9.6	Ko	1	..	38957b
13	7681	42.1	-34 50	7.53	8.3	Fo	7	..	13157b	63	3336	42.4	-60 20	9.0	8.9	B8	2	..	38957b
14	4626	42.1	-55 52	9.8	9.8	Ao	2	..	40304b	64	3335	42.4	-60 36	9.2	9.2	B9	1	..	38957b
15	3333	42.1	-60 54	9.2	9.3	B5	2	..	38957b	65	2621	42.4	-62 4	8.6	9.0	Ao	3	..	38828b
16	2619	42.1	-61 8	8.5	9.3	Ko	2	..	38957b	66	1708	42.4	-64 54	8.9	10.3	Ma	1	0,1	38798b
17	1585	42.1	-69 57	8.5	9.7	K5	3	..	38923b	67	1282	42.4	-71 40	10.2	10.2	Ao	1	..	39198b
18	2044	42.2	+27 58	8.8	9.3	F8	3	..	38311i	68	2378	42.5	+12 17	8.5	9.1	Go	5	..	38357i
19	2399	42.2	+11 0	8.6	9.1	F8	4	..	38357i	69	2504	42.5	+6 26	8.9	9.3	F5	4	..	13731b
20	2837	42.2	+0 39	9.89	10.89	Ko	1	..	19342b	70	9091	42.5	-28 30	10.1	10.8	Ko	2	..	40319b
21	2836	42.2	+0 23	9.3	10.1	G5	2	..	19342b	71	9456	42.5	-30 38	10.1	11.9	K	1	..	22921b
22	8311	42.2	-32 16	9.3	10.0	F8	3	..	22921b	72	6355	42.5	-50 52	8.2	9.2	K2	3	..	40304b
23	3843	42.2	-58 30	8.6	8.6	B9	4	..	38957b	73	4991	42.5	-57 47	8.3	9.3	K5	3	..	38957b
24	3334	42.2	-60 34	9.0	9.0	B9	2	..	38957b	74	2626	42.5	-61 22	8.7	9.3	Go	2	..	38828b
25	459	42.3	+75 33	10.5	11.5	Ko	1	..	4907m	75	2622	42.5	-61 52	8.4	8.3	B2	4	..	38828b
26	2150	42.3	+43 44	8.2	8.7	F8	3	..	37726i	76	2294	42.5	-62 44	9.1	9.1	Ao	4	..	38828b
27	2467	42.3	+40 29	8.0	8.8	G5	3	E	17453i	77	1643	42.5	-67 4	9.1	9.1	B9	4	..	38923b
28	2650	42.3	+20 35	8.0	8.4	F5	..	0,7	56,88	78	433	42.6	+76 4	10.5	11.1	Go	3	..	4907m
29	2437	42.3	+13 57	8.7	9.0	F2	2	..	38357i	79	721	42.6	+67 17	8.8	9.6	G5	2	..	37554i
30	2553	42.3	+3 28	9.3	9.8	F8	3	..	19342b	80	1511	42.6	+53 34	8.0	8.4	F5	3	..	38321i
31	2481	42.3	+2 35	8.4	8.8	F5	5	..	19342b	81	1862	42.6	+50 23	7.00	7.00	Ao	8	..	38321i
32	3414	42.3	-2 32	9.1	9.9	G5	2	..	13418b	82	1746	42.6	+46 14	8.2	9.0	G5	3	..	37726i
33	3471	42.3	-17 49	6.89	7.89	Ko	8	..	40314b	83	2455	42.6	+13 30	8.5	8.9	F5	4	..	38357i
34	3214	42.3	-22 45	10.0	10.7	F8	2	..	39950b	84	2555	42.6	+3 18	10.0	10.6	Go	1	..	19342b
35	8864	42.3	-25 24	7.36	7.9	A3	9	..	13147b	85	2839	42.6	+0 13	9.3	10.5	K5	2	..	19342b
36	8775	42.3	-26 44	11.3	11.1	G5	1	..	40319b	86	3473	42.6	-18 1	10.2	11.3	K2	1	..	40314b
37	9089	42.3	-28 56	7.96	9.0	F8	7	..	40319b	87	9956	42.6	-24 54	8.9	10.7	K5	1	..	13147b
38	9337	42.3	-29 43	6.56	7.5	Go	10	..	22921b	88	9341	42.6	-29 17	11.1	11.9	Ko	1	..	40319b
39	8312	42.3	-32 51	8.3	9.7	K2	4	..	22921b	89	8313	42.6	-32 36	9.3	10.9	F8	2	..	39923b
40	7333	42.3	-38 8	9.5	9.7	Ao	3	..	13157b	90	7959	42.6	-33 53	8.3	9.7	F5	6	..	22921b
41	7292	42.3	-43 27	9.2	9.6	Go	3	..	41420b	91	7420	42.6	-36 50	8.7	9.2	A3	3	..	13157b
42	3844	42.3	-59 3	9.8	9.8	B8	2	..	38957b	92	4766	42.6	-53 52	9.6	10.0	F5	2	..	38406b
43	867	42.4	+64 14	8.7	9.1	F5	4	..	37718i	93	2156	42.7	+33 2	8.0	9.2	K5	3	..	38401i
44	3144	42.4	-4 42	8.1	9.1	Ko	5	..	13807b	94	2046	42.7	+27 53	7.60	8.38	G5	5	..	38311i
45	3142	42.4	-4 54	9.8	10.6	G5	2	..	13807b	95	2438	42.7	+14 1	8.7	9.3	Go	2	..	38357i
46	3353	42.4	-5 55	8.5	8.8	Fo	3	..	13807b	96	2506	42.7	+6 43	9.5	10.3	G5	2	..	13731b
47	3240	42.4	-18 23	9.3	10.4	K2	2	..	40314b	97	3415	42.7	-3 9	9.6	10.7	K2	1	..	13418b
48	3241	42.4	-18 38	8.1	8.4	Fo	9	..	40314b	98	3242	42.7	-18 51	8.6	9.6	Ko	4	..	40314b
49	3345	42.4	-19 35	9.6	10.5	A5	2	..	40314b	99	3243	42.7	-18 56	9.1	9.6	F8	4	..	40314b
50	3215	42.4	-22 29	8.8	9.7	A2	3	..	13147b	100	8867	42.7	-25 25	8.7	9.6	Ko	2	..	13147b

THE HENRY DRAPER CATALOGUE.

102500

11^h 42^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8779	42.7	-26 30	10.8	11.4	Ko	1	..	40319b	51	4769	43.1	-53 48	9.3	9.8	F8	2	..	38406b
2	4998	42.7	-57 46	8.5	8.7	F5	6	..	38957b	52	3809	43.1	-60 0	var.	var.	B8	2	R	38957b
3	3803	42.7	-60 4	8.04	8.3	B8	5	..	38957b	53	1711	43.1	-64 46	9.4	9.4	B8	4	..	38828b
4	1709	42.7	-64 19	10.3	10.3	Ao	1	..	38798b	54	2279	43.2	+37 57	9.3	10.3	Ko	1	..	38656i
5	1588	42.7	-69 51	8.8	8.7	B5	4	..	38923b	55	2214	43.2	+28 59	7.21	7.55	F2	7	..	38311i
6	754	42.7	-76 4	7.9	9.3	Mb	7	..	39198b	56	3241	43.2	-8 19	7.80	8.80	Ko	7	..	13807b
7	746	42.7	-77 21	8.3	8.6	F2	4	..	21530b	57	8787	43.2	-26 8	11.3	10.5	G5	2	..	40319b
8	2232	42.8	+41 14	9.1	10.1	Ko	2	E	17453b	58	8786	43.2	-26 16	11.6	10.5	Go	1	..	40319b
9	2358	42.8	+20 46	4.54	5.04	F8	..	3,10	56.88	59	8323	43.2	-32 46	8.7	9.4	Ao	5	..	22921b
10	2549	42.8	+8 48	5.22	5.22	Ao	..	0,R	56.88	60	6835	43.2	-48 36	9.6	9.6	F5	2	..	19003b
11	2483	42.8	+2 35	9.5	10.0	F8	2	..	19342b	61	6501	43.2	-49 26	7.5	8.1	A2	9	..	19003b
12	3355	42.8	-5 41	9.3	10.1	G5	1	..	13807b	62	6050	43.2	-51 34	9.2	9.5	G5	3	..	40304b
13	3406	42.8	-14 54	8.3	8.7	F5	7	..	13419b	63	4878	43.2	-52 44	10.0	10.0	Ao	1	..	40304b
14	9092	42.8	-28 16	9.9	11.0	K2	2	..	40319b	64	4789	43.2	-56 52	9.1	8.9	B3	3	..	38957b
15	7473	42.8	-37 33	8.6	9.7	K2	1	..	13157b	65	5006	43.2	-57 26	8.3	9.3	Ko	2	..	38957b
16	7283	42.8	-46 2	8.9	9.1	Go	4	..	19003b	66	3856	43.2	-58 51	9.3	9.3	Ao	1	..	38957b
17	4768	42.8	-53 33	9.1	9.5	F5	3	..	38406b	67	2636	43.2	-61 39	8.6	9.0	Bo	3	..	38828b
18	4999	42.8	-57 19	8.6	9.6	Ko	1	..	38957b	68	748	43.2	-77 20	8.4	9.4	Ko	2	..	21530b
19	3806	42.8	-59 33	8.2	8.9	Ao	4	..	38957b	69	1547	43.3	+56 5	8.3	9.3	Ko	1	..	38321i
20	1969	42.8	-63 42	10.0	10.0	Ao	2	..	38828b	70	1747	43.3	+46 41	8.2	8.5	Fo	5	..	37726i
21	1283	42.8	-71 13	8.9	9.0	A2	3	..	38923b	71	2234	43.3	+41 12	8.8	9.1	Fo	4	..	17453i
22	675	42.9	+69 52	9.8	10.6	G5	2	..	37554i	72	3417	43.3	-2 41	7.7	8.0	Fo	8	..	13418b
23	661	42.9	+68 32	9.7	10.7	Ko	2	..	37554i	73	3365	43.3	-9 20	9.8	10.6	G5	1	..	13807b
24	3288	42.9	-8 4	8.7	9.1	F5	4	..	13807b	74	3366	43.3	-9 45	6.30	6.86	Go	9	..	13419b
25	3327	42.9	-16 58	9.3	10.4	K2	3	..	40314b	75	8874	43.3	-25 58	10.8	9.7	A2	4	..	40319b
26	9959	42.9	-24 44	9.7	9.9	A2	2	..	13147b	76	9259	43.3	-31 17	10.8	11.9	Ko	1	..	39923b
27	8781	42.9	-26 32	11.1	11.4	G5	1	..	40319b	77	6837	43.3	-48 22	9.2	9.0	F5	4	..	19003b
28	8307	42.9	-27 45	7.8	7.9	A2	8	..	40319b	78	5008	43.3	-57 40	7.6	7.8	Go	9	..	38957b
29	7963	42.9	-33 31	9.2	11.2	Ko	2	..	22921b	79	1723	43.3	-65 33	8.5	9.5	Ko	3	..	38828b
30	7423	42.9	-36 42	8.4	9.2	Fo	4	..	13157b	80	3242	43.4	-8 49	7.9	9.0	K2	6	..	13807b
31	7388	42.9	-46 25	10.2	10.8	Fo	1	..	19003b	81	3183	43.4	-11 54	8.9	9.5	Go	3	..	21155b
32	1971	42.9	-63 44	10.0	10.0	Ao	1	..	38828b	82	3220	43.4	-22 32	7.45	8.7	G5	7	..	13147b
33	1719	42.9	-65 27	8.2	8.2	B9	7	..	38828b	83	2310	43.4	-62 16	8.8	9.2	F5	2	..	38828b
34	1648	42.9	-67 8	7.5	8.5	Ko	7	..	38923b	84	1649	43.4	-66 15	4.71	7.5	K5	..	0,8R	28,206
35	3475	43.0	-17 24	10.2	11.0	G5	2	..	40314b	85	1821	43.4	-67 58	8.0	8.4	F5	4	..	38924b
36	3347	43.0	-20 2	10.0	10.7	Ko	1	..	40314b	86	357	43.4	-84 33	8.3	8.3	Ao	6	0,5	45456b
37	3509	43.0	-20 48	10.5	10.7	A5	2	..	40314b	87	1402	43.5	+59 35	8.8	9.2	F5	2	..	37718i
38	8308	43.0	-27 49	9.6	10.3	Ko	4	..	40319b	88	2215	43.5	+37 3	8.2	8.7	F8	2	..	38401i
39	9256	43.0	-31 50	9.4	10.3	Ko	2	..	22921b	89	2216	43.5	+29 21	7.05	7.11	A2	7	2,8	37531i
40	7692	43.0	-34 40	7.21	7.9	G5	8	..	13157b	90	2381	43.5	+14 51	5.90	6.04	A5	9	R	38357i
41	7307	43.0	-39 44	7.8	8.6	A2	7	..	13157b	91	2482	43.5	+7 26	9.3	10.3	Ko	3	..	13731b
42	7286	43.0	-45 25	9.2	9.6	Fo	3	..	19003b	92	3357	43.5	-16 4	9.6	10.0	F5	2	..	40314b
43	7287	43.0	-45 56	10.5	10.5	F2	1	..	19003b	93	9965	43.5	-24 32	7.8	8.4	A3	7	..	13147b
44	1819	43.0	-67 12	9.3	9.7	F5	1	..	38923b	94	9262	43.5	-31 25	10.8	11.2	F2	2	..	39923b
45	1567	43.0	-68 25	9.1	9.1	B9	2	..	38923b	95	7397	43.5	-46 22	9.8	10.7	Ko	1	..	19003b
46	3356	43.1	-16 0	7.86	8.93	K2	7	..	40314b	96	7398	43.5	-47 0	9.4	10.5	K5	1	..	19003b
47	3384	43.1	-21 32	10.0	10.7	Ko	2	..	39950b	97	4772	43.5	-53 36	8.8	9.3	F8	3	..	38406b
48	9099	43.1	-29 7	9.3	11.4	G5	3	..	40319b	98	4643	43.5	-55 39	8.6	8.7	B8	5	..	40304b
49	7965	43.1	-33 10	10.2	11.7	G5	1	..	22921b	99	3860	43.5	-58 40	9.2	9.2	Ao	2	..	38957b
50	7309	43.1	-39 16	9.6	9.7	A2	4	..	13157b	100	3356	43.5	-61 4	8.7	8.7	B8	3	..	38957b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

102600

11^h 43^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	689	43.5	-76 20	7.7	8.7	Ko	5	..	39198b	51	3243	44.0	- 8 34	7.50	8.50	Ko	8	..	13807b
2	2191	43.6	+31 45	8.9	9.7	G5	1	..	3840ri	52	3184	44.0	-12 4	8.3	8.6	F2	7	..	21155b
3	2360	43.6	+21 26	9.0	9.6	G	1	..	38229i	53	3331	44.0	-16 19	9.6	10.7	K2	1	..	40314b
4	3448	43.6	-13 47	6.92	7.92	Ko	8	..	13419b	54	3481	44.0	-17 57	9.2	9.5	Fo	5	..	40314b
5	3413	43.6	-14 27	8.8	8.8	Ao	4	..	13419b	55	8332	44.0	-32 17	9.2	11.7	K2	1	..	39923b
6	3349	43.6	-19 38	9.3	10.7	G5	2	..	40314b	56	7314	44.0	-43 33	8.2	9.9	K5	3	..	41420b
7	8878	43.6	-25 20	8.5	9.7	K2	3	..	13147b	57	6375	44.0	-50 51	7.7	8.0	B5	4	2,7	10814b
8	7454	43.6	-35 26	6.97	8.2	Mb	7	..	13157b	58	4783	44.0	-54 19	10.0	10.0	A	1	..	38406b
9	7480	43.6	-37 22	9.6	9.5	F5	3	..	13157b	59	1712	44.0	-64 10	9.6	9.7	A2	3	2,2	38798b
10	7343	43.6	-38 10	8.0	9.7	K5	3	..	13157b	60	2402	44.1	+16 48	5.95	6.01	A2	8	R	38229i
11	7592	43.6	-45 2	8.58	9.1	Ko	4	..	19003b	61	3455	44.1	- 6 48	7.12	8.30	K5	6	..	13807b
12	7401	43.6	-46 32	9.6	10.8	Ko	1	..	19003b	62	3244	44.1	- 8 17	8.9	9.7	G5	2	..	13807b
13	4644	43.6	-55 24	7.3	8.6	A5	6	..	40304b	63	3332	44.1	-16 49	9.6	9.9	Fo	2	..	40314b
14	1822	43.6	-67 28	9.6	10.0	F5	2	..	38923b	64	3244	44.1	-18 32	9.2	9.8	Go	2	..	40314b
15	1162	43.6	-72 55	8.4	8.7	Fo	6	..	39198b	65	3387	44.1	-21 56	10.0	10.7	F5	1	..	39950b
16	662	43.7	+67 53	7.17	7.67	F8	6	..	37554i	66	8319	44.1	-27 52	10.1	10.7	Fo	3	..	40319b
17	2361	43.7	+21 3	8.4	8.7	F2	3	..	38229i	67	7306	44.1	-45 48	9.2	10.0	Ko	2	..	19003b
18	2503	43.7	+19 24	7.85	8.35	F8	4	..	38229i	68	6067	44.1	-51 40	9.6	9.3	F8	3	..	40304b
19	2401	43.7	+11 14	8.3	8.6	Fo	3	..	38357i	69	4887	44.1	-52 10	8.8	9.8	Ko	1	..	40304b
20	8789	43.7	-26 11	5.45	7.5	Mb	..	5,9	28,206	70	4785	44.1	-54 26	8.6	9.3	K2	3	..	38406b
21	9472	43.7	-31 2	10.8	12.0	K5	1	..	39923b	71	1825	44.1	-67 18	9.0	10.0	Ko	1	..	38923b
22	7969	43.7	-33 49	9.2	11.8	K5	1	..	22921b	72	525	44.1	-81 53	9.5	10.5	K	1	..	13466b
23	7594	43.7	-44 21	9.0	10.2	Ko	2	..	41420b	73	1963	44.2	+45 17	8.8	9.6	G5	1	..	37726i
24	7403	43.7	-46 44	9.8	10.2	Ao	2	..	19003b	74	2654	44.2	+20 21	9.6	10.4	G5	2	..	38229i
25	749	43.7	-77 8	9.1	9.9	G5	2	..	21530b	75	3420	44.2	- 2 46	9.1	10.5	Ma	2	..	13418b
26	2504	43.8	+19 19	8.9	9.3	F5	1	..	38229i	76	3456	44.2	- 6 20	7.38	8.45	K2	5	..	13807b
27	2296	43.8	+16 41	6.95	7.95	Ko	4	..	38229i	77	3352	44.2	-19 47	8.8	10.0	Ko	4	..	40314b
28	3358	43.8	-16 3	7.68	8.86	K5	7	..	40314b	78	9358	44.2	-29 10	9.9	11.0	Ao	4	..	40319b
29	9103	43.8	-28 21	10.1	11.0	G5	2	..	40319b	79	9359	44.2	-30 6	8.70	10.0	Ko	4	..	22921b
30	7483	43.8	-37 46	8.9	10.0	Ko	1	..	13157b	80	8335	44.2	-33 2	8.9	11.7	G5	2	..	39923b
31	4795	43.8	-56 56	9.1	9.2	Ao	2	..	38957b	81	6787	44.2	-41 12	var.	var.	Md	1	R	13389b
32	3365	43.8	-61 0	8.6	9.0	G5	2	..	38828b	82	7307	44.2	-45 40	8.8	9.0	F8	6	..	19003b
33	2458	43.9	+12 46	8.9	10.0	K2	2	..	38357i	83	4889	44.2	-52 45	9.1	10.1	Ko	1	..	40304b
34	2843	43.9	+ 0 14	6.24	6.74	F8	5	..	38667i	84	3374	44.2	-60 35	9.3	9.3	B9	1	..	38828b
35	3330	43.9	-16 35	9.3	9.8	F8	3	..	40314b	85	1591	44.2	-69 54	8.0	8.4	F5	4	..	38923b
36	3350	43.9	-19 21	9.6	10.7	G5	3	..	40314b	86	2194	44.3	+30 3	7.56	8.56	Ko	3	0,3	37531i
37	3385	43.9	-21 17	9.8	10.7	Go	1	..	39950b	87	2392	44.3	+23 3	9.6	10.6	Ko	1	..	38311i
38	8880	43.9	-25 29	8.5	9.3	A2	4	..	13147b	88	2505	44.3	+18 48	8.5	9.9	Ma	1	..	38229i
39	8792	43.9	-26 57	8.5	9.3	Ko	6	..	40319b	89	3389	44.3	-21 32	8.7	9.0	G5	3	..	13147b
40	4778	43.9	-53 8	9.8	9.8	Ao	1	..	40304b	90	9476	44.3	-30 33	10.1	11.9	K2	2	..	39923b
41	3369	43.9	-60 22	9.3	9.3	B9	2	..	38828b	91	6856	44.3	-48 45	8.6	8.1	F2	5	..	19003b
42	2649	43.9	-61 50	9.2	9.2	Ao	2	..	38828b	92	4800	44.3	-56 17	9.1	9.5	Ao	3	..	40304b
43	1824	43.9	-67 23	9.9	10.0	A5	1	..	38923b	93	4799	44.3	-57 8	7.10	7.7	B9	8	..	38957b
44	851	43.9	-74 18	9.9	9.9	Ao	1	..	39198b	94	3379	44.3	-61 6	9.3	9.3	Ao	2	..	38828b
45	2216	44.0	+37 40	8.2	9.2	Ko	2	2,2	3840ri	95	2460	44.4	+13 19	9.7	10.7	Ko	2	..	38357i
46	2048	44.0	+28 41	7.45	8.45	Ko	5	..	38311i	96	2617	44.4	+ 1 9	8.1	9.1	Ko	3	..	19342b
47	2383	44.0	+15 8	2.23	2.29	A2	..	0,6 R	6427c	97	3499	44.4	-12 15	8.6	8.7	A5	3	..	21155b
48	2381	44.0	+12 27	8.5	9.7	K5	1	..	38357i	98	3360	44.4	-16 3	10.0	11.1	K2	1	..	40314b
49	2545	44.0	+ 5 44	6.70	7.70	Ko	9	..	19342b	99	8795	44.4	-26 45	11.1	12.1	Ko	1	..	40319b
50	3148	44.0	- 5 13	8.80	9.30	F8	4	..	13807b	100	8322	44.4	-27 43	10.4	10.5	Go	2	..	40319b

THE HENRY DRAPER CATALOGUE.

102700

11^h 44^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7489	44.4	-37 36	8.9	9.2	F2	4	..	13157b	51	8343	44.7	-32 9	9.6	10.9	Go	2	..	22921b
2	6965	44.4	-40 48	9.6	9.4	Ao	3	..	41420b	52	6516	44.7	-49 41	8.6	9.5	Ko	1	..	19003b
3	7312	44.4	-45 30	7.6	7.6	A3	9	..	19003b	53	6387	44.7	-50 10	7.12	8.0	Ko	9	..	19003b
4	6074	44.4	-51 33	9.1	9.8	Ko	2	..	40304b	54	6079	44.7	-51 18	9.6	9.0	Ko	3	..	40304b
5	4783	44.4	-53 10	9.0	9.3	A2	3	..	40304b	55	4900	44.7	-52 31	8.6	9.5	Ko	3	..	40304b
6	4657	44.4	-55 29	9.2	10.0	G5	1	..	40304b	56	4785	44.7	-53 28	9.0	9.5	Ko	3	..	38406b
7	2657	44.4	-61 34	8.5	9.5	Ko	1	..	38828b	57	4807	44.7	-56 57	9.5	9.5	B9	1	..	38957b
8	2321	44.4	-62 49	9.1	10.2	K2	2	..	38828b	58	1651	44.7	-66 55	9.4	9.4	B8	4	..	38923b
9	1570	44.4	-69 1	8.5	8.5	B9	3	..	38923b	59	2248	44.8	+41 53	8.8	9.6	G5	2	..	17453i
10	1286	44.4	-71 45	9.2	10.4	K5	2	..	39198b	60	2217	44.8	+37 17	8.8	9.6	G5	1	..	38401i
11	677	44.5	+70 36	9.5	10.1	Go	3	..	37554i	61	2527	44.8	+4 25	8.7	9.3	Go	4	..	19342b
12	1964	44.5	+45 5	9.5	10.5	K	1	..	37726i	62	3149	44.8	-4 18	8.1	9.2	K2	3	..	13418b
13	2284	44.5	+35 29	5.76	6.18	F5	9	..	38401i	63	3458	44.8	-7 2	8.9	9.9	Ko	2	..	13807b
14	2407	44.5	+22 39	9.0	9.5	F8	2	..	38229i	64	3335	44.8	-16 30	9.1	9.6	F8	4	..	40314b
15	2506	44.5	+19 30	7.9	8.9	Ko	3	..	38229i	65	8798	44.8	-26 43	11.6	11.6	G5	1	..	40319b
16	2551	44.5	+9 5	9.3	10.3	Ko	1	..	11381b	66	8799	44.8	-27 1	9.3	10.2	Mb	4	..	40319b
17	2572	44.5	-2 11	9.07	10.07	Ko	2	..	13418b	67	8345	44.8	-32 42	8.9	11.9	K5	1	..	22921b
18	3482	44.5	-17 50	9.2	10.2	Ko	3	..	40314b	68	7719	44.8	-34 48	10.4	10.5	Go	1	..	39923b
19	3247	44.5	-18 38	9.1	9.6	F8	5	..	40314b	69	7316	44.8	-45 27	7.8	8.7	Ko	4	..	19003b
20	8796	44.5	-26 55	11.3	11.6	G5	1	..	40319b	70	6388	44.8	-50 34	8.6	8.4	A2	4	..	40304b
21	9109	44.5	-28 24	10.8	11.4	Ao	1	R	40319b	71	6081	44.8	-51 38	8.9	8.6	F2	5	..	40304b
22	9275	44.5	-31 19	11.1	11.9	Ko	1	..	39923b	72	6080	44.8	-51 50	9.4	9.6	Ko	1	..	40304b
23	8340	44.5	-32 14	9.3	11.2	K5	1	..	22921b	73	3868	44.8	-58 42	8.6	8.4	Ao	5	..	38957b
24	7718	44.5	-34 25	9.6	10.0	G5	2	..	22921b	74	2663	44.8	-61 35	9.3	9.3	Ao	1	..	38828b
25	7413	44.5	-46 17	9.4	10.5	Go	2	..	19003b	75	2330	44.8	-62 31	9.5	9.5	Ao	2	..	38828b
26	6383	44.5	-50 16	9.8	9.5	K	1	..	19003b	76	1988	44.8	-63 14	4.52	4.40	B5	..	2,5 R	28,206
27	4788	44.5	-54 57	8.3	8.7	A2	6	..	38406b	77	1491	44.9	+54 49	6.86	7.86	Ko	7	..	38321i
28	3832	44.5	-59 52	7.30	9.2	K5	2	..	38957b	78	2155	44.9	+43 17	8.20	8.62	F5	4	..	37726i
29	1571	44.5	-68 8	8.3	8.4	A2	3	..	38924b	79	2365	44.9	+21 42	9.3	10.4	K2	1	..	38229i
30	1490	44.6	+55 20	9.1	9.7	G	1	..	38321i	80	2366	44.9	+20 51	8.6	9.7	K2	2	..	38229i
31	2483	44.6	+7 24	8.5	8.6	A2	7	..	13731b	81	2532	44.9	+18 27	8.9	9.9	Ko	1	..	38229i
32	2484	44.6	+7 5	8.0	8.8	G5	8	..	13731b	82	2528	44.9	+4 37	9.45	10.23	G5	2	..	19342b
33	2618	44.6	+1 10	9.3	9.7	F5	2	..	19342b	83	3484	44.9	-17 37	9.1	9.4	Fo	5	..	40314b
34	3415	44.6	-14 52	8.7	9.5	G5	2	..	13419b	84	3223	44.9	-22 29	8.5	9.6	A3	3	..	13147b
35	3334	44.6	-16 37	9.6	10.6	Ko	1	..	40314b	85	8800	44.9	-26 57	11.3	10.8	Ao	2	..	40319b
36	3333	44.6	-17 3	8.3	9.4	K2	4	..	40314b	86	9369	44.9	-29 16	10.6	11.4	A2	4	..	40319b
37	3483	44.6	-17 49	10.0	11.0	Ko	1	..	40314b	87	9483	44.9	-30 55	9.3	10.9	Ko	1	..	22921b
38	9364	44.6	-29 27	10.6	10.6	F8	2	..	40319b	88	9282	44.9	-31 56	9.9	11.2	K2	2	..	22921b
39	6385	44.6	-50 12	8.24	8.9	Ko	3	..	19003b	89	8347	44.9	-32 28	10.0	11.9	K	1	..	22921b
40	6078	44.6	-51 56	9.6	9.3	F5	3	..	40304b	90	8348	44.9	-33 0	9.8	10.8	Ko	1	..	39923b
41	4805	44.6	-56 16	9.6	9.6	Ao	2	..	40304b	91	7328	44.9	-39 43	7.30	8.3	Ko	7	..	13157b
42	1986	44.6	-64 4	10.0	10.0	B9	2	..	38798b	92	7318	44.9	-45 28	9.1	9.6	F5	3	..	19003b
43	1468	44.7	+54 22	8.51	9.29	G5	3	..	38321i	93	4902	44.9	-53 7	9.7	9.8	A2	1	..	40304b
44	2531	44.7	+17 58	9.5	10.5	Ko	1	..	38229i	94	4786	44.9	-53 57	8.4	8.6	A2	6	..	38406b
45	2544	44.7	+8 4	8.6	9.1	F8	5	..	13731b	95	4791	44.9	-54 19	10.0	10.0	Ao	2	..	40304b
46	2561	44.7	+2 55	9.7	10.5	G5	2	..	19342b	96	1572	44.9	-68 46	9.6	9.6	Ao	1	..	38923b
47	2560	44.7	+2 47	8.6	9.0	F5	7	..	19342b	97	757	44.9	-75 36	9.9	9.9	B9	2	..	39198b
48	3295	44.7	-7 30	8.9	9.9	Ko	2	..	13807b	98	191	45.0	+85 33	8.7	9.1	F5	3	..	37793i
49	3501	44.7	-13 5	7.46	8.53	K2	6	..	13419b	99	2471	45.0	+39 21	8.74	9.30	Go	2	5,2	17453i
50	9279	44.7	-31 53	7.78	8.8	F8	7	..	22921b	100	2546	45.0	+5 28	9.3	10.3	Ko	3	..	19342b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

102800

11^h 45^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3504	45.0	-12 53	8.5	9.6	K2	3	..	13419b	51	6394	45.3	-50 55	9.0	9.2	Ko	2	..	40304b
2	6969	45.0	-40 25	8.9	9.7	F5	3	..	13157b	52	6086	45.3	-51 36	10.2	9.3	Ao	3	..	40304b
3	6522	45.0	-49 46	8.2	8.7	Ko	5	..	19003b	53	4798	45.3	-54 17	9.4	9.8	F5	1	..	40304b
4	4665	45.0	-55 43	8.1	9.0	F2	3	..	40304b	54	4818	45.3	-56 37	8.5	9.8	Pe	..	R	76,22
5	4810	45.0	-56 59	8.9	9.8	Ko	1	..	38957b	55	434	45.4	+75 54	7.82	8.10	Fo	4	0,9	37465i
6	1729	45.0	-65 41	9.5	9.5	B9	2	..	38828b	56	1200	45.4	+61 47	8.2	9.0	G5	3	..	37718i
7	2285	45.1	+35 21	8.9	9.9	Ko	2	..	38401i	57	2132	45.4	+44 13	8.2	9.0	G5	5	..	37726i
8	2409	45.1	+22 1	8.8	9.4	Go	2	..	38229i	58	3367	45.4	-5 39	8.1	9.2	K2	3	..	13807b
9	2463	45.1	+13 34	8.3	8.4	A2	4	..	38357i	59	3337	45.4	-17 11	8.3	8.8	F8	7	..	40314b
10	3516	45.1	-20 38	8.7	9.6	F8	3	..	13147b	60	3253	45.4	-18 33	10.5	11.3	G5	1	..	40314b
11	8327	45.1	-27 13	10.8	11.6	Ko	1	..	40319b	61	3252	45.4	-19 8	9.2	10.2	Ko	4	..	40314b
12	8326	45.1	-28 3	11.1	11.4	Ao	2	..	40319b	62	3517	45.4	-20 16	9.8	10.3	F8	2	..	40314b
13	7723	45.1	-34 23	9.6	9.5	Fo	3	..	22921b	63	9117	45.4	-29 5	9.1	10.7	Fo	4	..	40319b
14	6872	45.1	-48 59	8.2	8.3	Ao	7	..	19003b	64	7450	45.4	-36 18	9.2	9.4	A2	2	..	13157b
15	6084	45.1	-51 8	7.4	7.6	Ao	5	0,8	10814b	65	7326	45.4	-45 54	8.2	7.6	F2	8	..	19003b
16	4906	45.1	-52 31	8.4	8.3	A2	6	..	40304b	66	3411	45.4	-60 28	9.1	10.1	Ko	2	..	38828b
17	4812	45.1	-56 29	7.6	9.5	K2	3	..	40304b	67	2342	45.4	-62 12	9.2	9.2	A	2	..	38828b
18	4814	45.1	-56 17	9.1	9.8	Ko	1	..	40304b	68	2050	45.5	+28 39	7.9	8.3	F5	5	..	38311i
19	1991	45.1	-63 23	10.0	10.0	B9	2	..	38828b	69	2343	45.5	+10 4	8.5	9.5	Ko	2	..	38357i
20	1654	45.1	-66 57	9.5	9.5	B9	2	..	38923b	70	2489	45.5	+2 20	3.80	4.30	F8	..	0,5 R	1773c
21	1829	45.1	-67 25	9.9	10.0	A2	1	..	38923b	71	3186	45.5	-12 9	9.1	10.1	Ko	2	..	13419b
22	339	45.2	+83 13	8.32	8.38	A2	4	..	37465i	72	3225	45.5	-22 36	9.6	10.7	Ko	1	..	39950b
23	1749	45.2	+46 20	9.1	9.6	F8	2	..	37726i	73	7432	45.5	-46 57	10.0	10.7	A3	1	..	19003b
24	2341	45.2	+10 37	8.1	8.7	Go	3	..	38357i	74	6397	45.5	-50 23	9.0	9.2	K2	1	..	19003b
25	2547	45.2	+5 30	9.3	10.3	Ko	4	..	19342b	75	5036	45.5	-57 44	8.9	9.8	Ko	1	..	38957b
26	3460	45.2	-6 49	8.1	8.6	F8	8	..	13807b	76	3877	45.5	-58 12	8.6	8.7	Ao	2	..	38957b
27	3298	45.2	-8 3	9.3	10.3	Ko	1	..	13807b	77	3412	45.5	-61 0	9.0	9.2	Fo	2	..	38957b
28	3250	45.2	-19 3	7.9	8.2	Fo	7	..	13147b	78	2677	45.5	-62 5	5.65	6.1	A2p	..	0,2 R	56,130
29	3354	45.2	-19 17	9.3	9.9	F5	4	..	40314b	79	854	45.5	-75 5	9.34	9.9	Ko	1	..	39198b
30	7988	45.2	-33 15	10.0	11.8	F8	1	..	39923b	80	476	45.5	-82 49	9.7	9.8	A2	2	0,2	13466b
31	7725	45.2	-34 45	9.6	10.0	F5	3	..	22921b	81	588	45.6	+71 40	8.2	9.2	Ko	3	..	37554i
32	7427	45.2	-46 38	10.2	10.5	A3	2	..	19003b	82	1590	45.6	+51 58	7.70	9.05	Ma	2	..	38321i
33	7170	45.2	-47 9	10.9	10.8	A	1	..	19003b	83	3247	45.6	-8 51	7.75	8.75	Ko	5	5,7	13419b
34	6528	45.2	-49 17	9.4	9.6	Ao	3	..	19003b	84	3378	45.6	-9 23	8.7	9.9	K5	2	0,1	13807b
35	4815	45.2	-56 45	8.9	9.3	F5	2	..	38957b	85	3505	45.6	-12 18	7.34	8.52	K5	5	..	13419b
36	3875	45.2	-58 47	8.7	8.4	B9	3	..	38957b	86	3485	45.6	-18 11	9.1	10.1	Ko	3	..	40314b
37	1573	45.2	-68 41	9.7	9.7	A	1	..	38923b	87	3226	45.6	-22 55	8.3	8.7	F8	6	..	13147b
38	1594	45.2	-69 37	9.4	9.4	A	1	..	38923b	88	8807	45.6	-26 43	6.53	8.1	Ko	9	..	40319b
39	1595	45.2	-69 40	4.90	6.9	G5	..	5,9	28,206	89	7452	45.6	-37 7	7.7	8.5	Ko	6	..	13157b
40	1199	45.3	+61 55	8.32	9.32	Ko	4	..	37718i	90	7608	45.6	-44 9	8.9	10.0	Ko	1	..	41420b
41	2342	45.3	+10 21	8.1	8.2	A3	4	..	38357i	91	6399	45.6	-50 24	9.1	9.3	Ko	2	..	19003b
42	2619	45.3	+1 34	9.5	10.5	Ko	2	..	19342b	92	4790	45.6	-53 9	9.2	9.8	Go	2	..	40304b
43	2498	45.3	-0 42	9.3	10.3	Ko	2	..	13418b	93	3415	45.6	-60 14	8.40	8.3	B5	4	..	38957b
44	2576	45.3	-1 52	7.9	8.5	Go	7	..	13418b	94	548	45.7	+72 20	9.1	10.1	Ko	2	..	37554i
45	3363	45.3	-15 18	6.29	7.29	Ko	10	..	40314b	95	1966	45.7	+45 40	8.9	9.5	Go	3	..	37726i
46	3391	45.3	-21 58	9.3	10.7	Ko	1	..	39950b	96	2394	45.7	+23 29	9.6	10.6	Ko	1	..	38311i
47	9114	45.3	-28 34	8.9	9.6	F5	6	..	40319b	97	2509	45.7	+19 12	9.0	9.4	F5	1	..	38229i
48	9373	45.3	-29 59	9.15	10.0	Go	4	..	22921b	98	2487	45.7	+6 54	8.1	9.1	Ko	4	..	11381b
49	7323	45.3	-43 41	9.8	9.9	Ao	2	..	41420b	99	9118	45.7	-28 28	10.1	10.8	G5	2	..	40319b
50	7173	45.3	-47 15	10.0	10.8	G	1	..	19003b	100	9493	45.7	-30 41	10.6	11.3	G5	2	..	39923b

THE HENRY DRAPER CATALOGUE.

102900

11^h 45^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
		m.	°									m.	°						
1	9293	45.7	-31 20	11.1	11.7	Go	1	..	39923b	51	8355	46.0	-32 40	8.9	10.6	Ko	2	..	22921b
2	8354	45.7	-32 35	7.18	8.1	G5	7	..	22921b	52	7487	46.0	-35 9	9.6	10.6	Ko	1	..	39923b
3	6977	45.7	-40 18	8.6	9.2	Ko	3	..	13157b	53	7455	46.0	-37 4	9.6	10.0	Ko	1	..	13157b
4	7181	45.7	-47 42	9.8	10.5	Go	2	..	19003b	54	1658	46.0	-66 56	10.0	10.0	Ao	1	..	38923b
5	7180	45.7	-47 53	10.9	10.5	Go	2	..	19003b	55	1165	46.0	-72 58	8.0	8.0	Ao	7	..	39198b
6	5039	45.7	-57 40	8.7	9.2	Ao	3	..	38957b	56	1340	46.1	+58 12	8.0	8.8	G5	4	..	37718i
7	3416	45.7	-60 39	8.7	9.8	K2	2	..	38828b	57	2136	46.1	+44 40	9.44	10.00	G	2	..	37726i
8	1833	45.7	-67 38	9.1	10.3	K5	1	..	38923b	58	2529	46.1	+3 58	10.0	10.4	F5	1	..	19342b
9	2262	45.8	+34 10	7.20	8.20	Ko	5	..	38401i	59	2490	46.1	+2 20	9.7	10.2	F8	3	..	19342b
10	2465	45.8	+12 50	6.22	6.30	A3	9	..	38357i	60	3303	46.1	-7 26	6.93	7.93	Ko	8	..	13807b
11	3418	45.8	-14 50	8.3	9.3	Ko	5	..	13419b	61	3256	46.1	-18 24	9.6	10.1	F8	1	..	40314b
12	3338	45.8	-16 39	9.6	11.0	Mb	2	..	40314b	62	8814	46.1	-26 31	7.22	8.4	Ko	7	..	40319b
13	3519	45.8	-20 26	8.18	8.4	A2	7	..	13147b	63	6984	46.1	-40 12	9.34	9.4	Ao	3	..	13157b
14	3394	45.8	-21 35	8.3	9.1	Ko	4	..	13147b	64	7614	46.1	-44 37	4.71	6.7	Ko	..	0,7 R	28,206
15	3229	45.8	-22 40	9.3	10.3	Ko	2	..	39950b	65	7337	46.1	-45 51	9.4	10.2	K5	1	..	19003b
16	3228	45.8	-22 58	9.6	10.2	F8	2	..	39950b	66	7438	46.1	-46 37	9.6	10.5	F8	3	..	19003b
17	8812	45.8	-27 1	11.1	10.8	A3	1	..	40319b	67	4793	46.1	-53 56	9.1	9.2	A3	3	..	38406b
18	7611	45.8	-44 24	8.9	9.9	Ko	1	..	41420b	68	3858	46.1	-59 37	7.0	8.4	F8	5	..	38957b
19	4920	45.8	-52 23	9.7	9.8	A2	1	..	40304b	69	1836	46.1	-67 31	8.4	9.4	Ko	5	..	38924b
20	4917	45.8	-53 5	9.1	9.3	Ko	2	..	40304b	70	1493	46.2	+55 7	8.8	9.6	G5	1	..	38321i
21	5042	45.8	-57 16	8.2	8.4	Ao	7	..	38957b	71	1494	46.2	+54 51	8.71	9.71	Ko	1	..	38321i
22	2684	45.8	-61 53	9.5	9.5	B8	2	..	38828b	72	3258	46.2	-18 25	9.2	10.3	K2	3	..	40314b
23	2681	45.8	-61 59	8.6	8.3	B8	4	..	38828b	73	10220	46.2	-23 44	10.4	10.8	Ko	1	..	39950b
24	2347	45.8	-62 39	9.5	9.5	B8	1	..	38828b	74	8816	46.2	-26 54	11.1	11.6	Ko	1	..	40319b
25	628	45.9	+69 24	7.09	7.15	A2	7	..	37554i	75	8815	46.2	-27 4	10.8	11.1	Ko	1	..	40319b
26	2396	45.9	+23 18	8.8	9.8	Ko	1	..	38229i	76	9124	46.2	-28 56	10.8	10.7	G5	4	..	40319b
27	2510	45.9	+19 25	8.5	9.5	Ko	2	..	38229i	77	9387	46.2	-29 37	11.6	12.4	G5	1	..	40319b
28	3152	45.9	-4 46	5.81	6.81	Ko	8	..	19178b	78	9497	46.2	-31 6	11.1	11.9	F8	2	..	39923b
29	3370	45.9	-5 39	8.7	9.7	Ko	1	..	13807b	79	7734	46.2	-35 4	10.6	10.5	G5	1	..	39923b
30	3455	45.9	-14 11	8.3	8.4	A5	7	..	13419b	80	7460	46.2	-36 22	7.53	8.2	Ao	8	..	13157b
31	3397	45.9	-21 50	8.8	9.7	Ko	2	..	13147b	81	7333	46.2	-43 22	6.92	7.1	Ao	4	0,10	43289b
32	9299	45.9	-31 19	11.6	11.9	Go	1	..	39923b	82	6103	46.2	-51 19	8.5	8.7	G5	5	..	40304b
33	7996	45.9	-33 43	9.0	11.8	K5	1	..	22921b	83	4932	46.2	-52 52	8.9	9.3	Ao	3	..	40304b
34	7484	45.9	-35 48	9.8	9.4	F2	2	..	13157b	84	4825	46.2	-56 42	9.0	10.0	Ko	1	..	40304b
35	7362	45.9	-38 42	7.8	9.4	K2	3	..	13157b	85	2690	46.2	-62 5	7.9	9.7	K5	1	..	38828b
36	4804	45.9	-54 19	8.9	9.2	Fo	3	..	40304b	86	1435	46.2	-70 56	9.0	9.3	F2	6	2,3	39198b
37	4673	45.9	-55 20	8.9	9.2	F5	3	..	40304b	87	2159	46.3	+43 29	8.8	9.8	Ko	2	..	37726i
38	3423	45.9	-60 49	9.4	9.5	A2	2	..	38828b	88	2388	46.3	+12 22	6.98	7.32	F2	7	..	38357i
39	2687	45.9	-62 5	8.1	10.0	K2	1	..	38828b	89	3381	46.3	-9 25	8.7	8.8	A5	3	2,5-	11224b
40	2350	45.9	-63 5	8.8	8.9	A5	4	..	38828b	90	3190	46.3	-11 38	6.22	6.50	Fo	10	..	13419b
41	2220	46.0	+37 23	7.8	8.8	Ko	4	..	38401i	91	3366	46.3	-15 27	10.0	10.0	Ao	3	..	40314b
42	2264	46.0	+33 56	6.14	6.48	F2	9	R	38401i	92	3259	46.3	-18 24	9.8	10.8	Ko	1	..	40314b
43		46.0	+33 56			A2				93	8358	46.3	-32 44	9.6	9.7	A2	4	..	22921b
44	2161	46.0	+33 2	8.6	9.1	F8	2	..	38401i	94	7256	46.3	-42 31	6.9	8.2	Ko	7	..	13389b
45	3249	46.0	-8 43	7.52	7.80	Fo	8	5,8	13807b	95	7617	46.3	-44 25	8.8	10.5	Ko	1	..	41420b
46	3353	46.0	-10 39	8.6	10.0	Map	3	R	13419b	96	6106	46.3	-51 33	7.4	8.1	K2	5	..	40304b
47	3354	46.0	-10 45	9.3	9.8	F8	3	..	13419b	97	2691	46.3	-61 17	6.69	6.9	Bo	8	R	38828b
48	3508	46.0	-12 46	7.21	7.21	Ao	9	..	13419b	98	2222	46.4	+37 8	8.8	9.6	G5	1	..	38401i
49	3507	46.0	-13 8	8.5	9.6	K2	3	..	13419b	99	2489	46.4	+7 26	8.1	9.3	K5	3	..	11381b
50	9385	46.0	-29 18	11.1	12.1	Ko	2	..	40319b	100	3371	46.4	-6 5	9.6	10.4	G5	1	..	13807b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

103000

11^h 46^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptn.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptn.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3368	46.4	-15 33	9.6	10.6	Ko	3	..	40314b	51	6992	46.8	-40 41	7.5	8.2	F5	8	..	13157b
2	10227	46.4	-23 17	7.8	8.8	F5	7	..	13147b	52	3442	46.8	-60 36	7.7	9.7	Ma	2	..	38828b
3	7737	46.4	-34 57	9.8	10.0	Go	1	..	22921b	53	1841	46.8	-67 37	9.7	9.7	Ao	2	..	38924b
4	4806	46.4	-54 17	9.3	9.8	F8	2	..	40304b	54	2345	46.9	+ 9 46	8.97	9.97	Ko	2	..	11381b
5	2697	46.4	-61 10	9.1	8.6	Ao	5	..	38828b	55	3264	46.9	-18 28	10.5	11.6	K2	1	..	40314b
6	2695	46.4	-61 15	8.9	8.0	B	7	..	38828b	56	8822	46.9	-27 7	10.8	11.4	F2	2	..	40319b
7	2696	46.4	-61 26	9.2	9.2	B8	3	..	38828b	57	8341	46.9	-27 33	10.6	10.8	F5	2	..	40319b
8	754	46.4	-77 44	9.1	9.1	Ao	2	..	21530b	58	9310	46.9	-31 23	9.9	11.0	Ko	2	..	22921b
9	549	46.5	+72 32	8.9	9.0	A5	3	..	37554i	59	8366	46.9	-32 22	9.5	10.7	K5	1	..	39923b
10	664	46.5	+68 24	8.7	8.8	A2	3	..	37554i	60	7739	46.9	-34 43	10.4	10.3	F5	1	..	39923b
11	1591	46.5	+52 33	9.0	10.0	Ko	1	..	38321i	61	7376	46.9	-38 58	8.7	9.7	Ko	2	..	13157b
12	1968	46.5	+45 22	8.1	8.7	Go	3	..	37726i	62	4949	46.9	-52 54	8.6	9.6	Ko	2	..	40304b
13	2530	46.5	+ 3 49	8.9	9.9	Ko	4	..	19342b	63	4809	46.9	-54 36	9.0	10.0	Ko	1	..	40304b
14	3522	46.5	-21 5	7.49	7.9	F5	8	..	13147b	64	4832	46.9	-56 56	9.0	9.8	G5	1	..	38957b
15	9502	46.5	-31 4	9.4	9.7	Fo	5	..	22921b	65	2708	46.9	-61 22	9.2	9.2	B9	2	..	38828b
16	7497	46.5	-35 56	8.6	9.5	Ko	2	..	13157b	66	2003	46.9	-64 2	7.2	7.2	B8	7	..	38828b
17	7339	46.5	-40 8	7.84	8.3	F2	7	..	13157b	67	1577	46.9	-68 55	9.6	9.6	Ao	1	..	38923b
18	5057	46.5	-57 14	9.2	9.2	Ao	2	..	38957b	68	473	47.0	+73 54	9.5	10.6	K2	1	..	4907m
19	2699	46.5	-62 2	9.2	9.2	B8	3	..	38828b	69	1871	47.0	+50 30	7.07	8.14	K2	4	2,4	38429i
20	2356	46.5	-62 21	9.2	9.2	Ao	2	..	38828b	70	2265	47.0	+34 24	8.9	9.9	Ko	1	..	38401i
21	1576	46.5	-68 18	7.3	7.8	F8	5	..	38924b	71	2397	47.0	+23 0	9.6	10.6	Ko	1	..	38311i
22	3341	46.6	-17 1	8.3	9.5	K5	4	..	40314b	72	2511	47.0	+19 19	7.9	9.0	K2	3	..	38229i
23	3488	46.6	-17 37	8.3	9.4	K2	4	..	40314b	73	2518	47.0	+ 6 11	8.7	9.7	Ko	2	..	11381b
24	3487	46.6	-18 14	8.3	9.3	Ko	5	..	40314b	74	3467	47.0	- 6 19	9.2	10.3	K2	2	..	13807b
25	3260	46.6	-18 37	8.7	9.8	K2	4	..	40314b	75	3489	47.0	-17 37	10.0	11.0	Ko	1	..	40314b
26	9506	46.6	-30 16	5.96	7.0	Go	..	0,10	56,130	76	7341	47.0	-43 24	8.2	9.0	G5	3	..	13389b
27	8360	46.6	-32 16	9.5	10.0	A	3	..	22921b	77	6899	47.0	-48 50	7.1	7.1	B8	5	0,9	10814b
28	7498	46.6	-35 17	9.53	10.0	Ko	1	..	22921b	78	4799	47.0	-53 51	8.1	8.3	A2	6	..	40107b
29	7370	46.6	-39 6	8.9	8.8	Ao	5	..	13157b	79	1724	47.0	-64 39	5.10	4.98	B5	..	2,4	56,130
30	7340	46.6	-39 14	8.0	9.5	K2	3	..	13157b	80	1842	47.0	-67 36	8.9	9.7	G5	2	..	38924b
31	7260	46.6	-43 0	9.4	9.7	A	1	..	13389b	81	460	47.1	+75 31	9.12	9.18	A2	6	..	4907m
32	6891	46.6	-48 10	8.9	9.0	Go	5	..	19003b	82	1970	47.1	+44 47	9.04	9.10	G	2	..	37726i
33	6411	46.6	-51 8	8.9	9.6	K5	1	..	40304b	83	2406	47.1	+11 32	8.3	9.4	K2	2	..	38357i
34	1969	46.7	+45 10	8.9	9.5	G	1	..	37726i	84	2621	47.1	+ 0 48	9.64	9.98	F2	4	..	19342b
35	2344	46.7	+10 33	8.5	8.6	A5	3	..	38357i	85	3357	47.1	-10 45	9.1	10.1	Ko	1	..	13419b
36	3155	46.7	- 5 12	8.65	9.72	K2	1	..	13807b	86	3265	47.1	-18 39	7.17	7.31	A5	9	..	13147b
37	3369	46.7	-15 51	9.3	10.1	G5	3	..	40314b	87	10005	47.1	-24 35	9.7	11.1	K2	1	..	13147b
38	3524	46.7	-20 21	10.13	10.8	F5	1	..	40314b	88	6900	47.1	-48 44	8.9	9.2	F5	3	..	19003b
39	8362	46.7	-32 15	8.6	9.1	Fo	5	..	22921b	89	6425	47.1	-51 8	9.6	9.6	Ko	1	..	40304b
40	8361	46.7	-32 38	10.2	11.7	Ko	1	..	39923b	90	4801	47.1	-53 12	9.2	9.2	Ao	3	..	40107b
41	7341	46.7	-39 45	7.59	8.8	Ko	6	..	13157b	91	4810	47.1	-54 48	9.4	9.8	F5	2	..	40304b
42	7192	46.7	-47 12	9.6	10.7	F8	2	..	19003b	92	5067	47.1	-57 33	9.1	9.3	Ao	2	..	38957b
43	6415	46.7	-50 56	8.4	8.1	A2	3	0,7	10814b	93	1843	47.1	-67 30	8.9	10.0	K2	1	..	38923b
44	4830	46.7	-57 3	9.5	9.5	Ao	2	..	38957b	94	1473	47.2	+54 20	9.0	10.2	K5	2	..	38321i
45	1201	46.8	+62 16	7.92	8.26	F2	6	..	37718i	95	2285	47.2	+38 26	6.46	7.24	G5	7	5,8 R	38656i
46	2552	46.8	+ 9 23	8.7	9.1	F5	2	R	11381b	96	3373	47.2	- 5 44	9.6	9.9	F2	1	..	13807b
47	2553	46.8	+ 9 23	8.1	9.1	Ko	2	..	19342b	97	3358	47.2	-10 34	9.6	10.2	Go	1	..	13419b
48	2531	46.8	+ 4 18	10.3	11.3	Ko	2	..	13147b	98	8349	47.2	-27 35	10.8	10.3	A5	3	..	40319b
49	10231	46.8	-23 20	10.1	9.7	Ao	2	..	22921b	99	9393	47.2	-29 31	11.3	12.3	Ko	2	..	40319b
50	8364	46.8	-32 54	9.2	11.9	K2	1	..	22921b	100	8370	47.2	-32 27	10.0	11.7	Ko	1	..	39923b

THE HENRY DRAPER CATALOGUE.

103100

11^h47^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4836	m. 47.2	° 56 26	5.69	6.7	A ₂	..	2,3	56,130	51	2052	m. 47.6	° +28 45	8.6	9.7	K ₂	1	..	38311i
2	5068	47.2	-57 14	8.4	9.2	K ₀	2	..	38957b	52	2307	47.6	+16 0	6.73	6.79	A ₂	..	0,7	56,88
3	3890	47.2	-58 29	8.2	8.4	A ₂	3	..	38957b	53	2549	47.6	+ 8 11	8.7	9.5	G ₅	3	..	11381b
4	3875	47.2	-59 58	9.60	9.2	A	1	R	38957b	54	3469	47.6	- 7 3	var.	var.	Mc	..	R	M
5	3446	47.2	-60 30	9.5	9.5	B ₉	2	..	38828b	55	3268	47.6	-18 38	8.3	9.4	K ₂	4	..	40314b
6	1578	47.2	-68 12	9.6	9.6	A ₀	1	..	38923b	56	3529	47.6	-20 17	10.5	10.3	A ₂	2	..	40314b
7	1599	47.2	-69 31	9.6	9.6	A	1	..	38923b	57	3403	47.6	-21 28	9.1	9.9	K ₀	1	..	13147b
8	629	47.3	+68 57	9.5	10.5	K ₀	2	..	37554i	58	3402	47.6	-21 37	9.3	10.5	K ₂	2	0,1	39950b
9	2241	47.3	+40 53	8.8	9.2	F ₅	2	..	17453i	59	8831	47.6	-26 27	10.6	11.4	K ₂	1	..	40319b
10	2367	47.3	+20 58	7.28	7.70	F ₅	7	..	38229i	60	9142	47.6	-28 35	10.8	11.4	F ₈	1	..	40319b
11	2306	47.3	+16 26	7.9	8.7	G ₅	2	..	38229i	61	8015	47.6	-33 30	8.7	10.3	A ₀	5	..	22921b
12	2347	47.3	+10 30	7.8	8.8	K ₀	3	..	38357i	62	6128	47.6	-51 34	8.9	9.9	K ₂	1	..	40304b
13	2548	47.3	+ 8 7	9.0	10.2	K ₅	1	..	11381b	63	4964	47.6	-52 43	8.4	8.6	A ₀	6	..	40304b
14	2534	47.3	+ 3 51	10.7	11.9	K ₅	1	..	19342b	64	4809	47.6	-53 34	9.2	10.0	G ₅	1	..	40107b
15	2566	47.3	+ 3 38	8.5	9.3	G ₅	6	..	19342b	65	4812	47.6	-54 22	9.1	9.2	A ₂	4	..	40304b
16	3360	47.3	-19 25	8.5	9.4	G ₅	4	..	13147b	66	3885	47.6	-59 46	9.8	9.8	A	1	..	38957b
17	3526	47.3	-20 17	9.78	10.3	F ₈	2	..	40314b	67	3457	47.6	-60 39	9.0	9.0	B ₉	2	..	38828b
18	8910	47.3	-26 0	9.6	11.4	K ₅	2	..	40319b	68	2725	47.6	-61 53	7.9	9.2	K ₅	2	..	38828b
19	8824	47.3	-26 15	10.6	10.3	K ₀	3	..	40319b	69	2374	47.6	-62 13	9.2	9.2	B ₈	2	..	38828b
20	8825	47.3	-27 3	10.4	10.5	G ₅	3	..	40319b	70	2373	47.6	-62 36	7.6	8.6	K ₀	5	..	38828b
21	9138	47.3	-28 20	9.9	10.7	A ₃	2	..	40319b	71	2444	47.7	+14 18	8.5	9.6	K ₂	2	..	38357i
22	9515	47.3	-30 52	9.6	10.2	F ₅	2	..	22921b	72	2554	47.7	+ 9 4	8.9	9.5	Go	3	..	11381b
23	7513	47.3	-37 12	8.2	8.5	F ₅	5	..	13157b	73	3424	47.7	-14 17	8.3	9.3	K ₀	4	..	13419b
24	6427	47.3	-50 28	9.1	9.8	K ₂	2	..	19003b	74	7517	47.7	-37 26	7.8	7.9	F ₂	7	..	13157b
25	6428	47.3	-50 45	6.9	8.1	K ₀	8	..	40304b	75	7354	47.7	-45 31	9.1	9.6	K ₀	2	..	19003b
26	99	47.4	+86 47	9.1	9.9	G ₅	4	..	37793i	76	7204	47.7	-48 6	8.4	7.8	F ₈	7	..	19003b
27	1339	47.4	+57 20	8.8	8.9	A ₅	2	E	37718i	77	6132	47.7	-51 56	7.5	8.7	K ₀	6	..	40304b
28	2399	47.4	+23 17	9.6	10.6	K ₀	1	..	38311i	78	4967	47.7	-52 16	9.0	9.0	A ₀	4	..	40304b
29	2567	47.4	+ 3 42	9.3	10.3	K ₀	2	..	19342b	79	4966	47.7	-52 26	8.4	8.7	F ₂	5	..	40304b
30	3458	47.4	-13 35	7.7	8.2	F ₈	7	..	13419b	80	3887	47.7	-59 59	9.04	9.2	F ₅	2	..	38957b
31	3344	47.4	-17 10	9.3	9.7	F ₅	2	..	40314b	81	2730	47.7	-61 26	8.7	9.2	F ₈	3	..	38828b
32	3490	47.4	-17 47	8.9	9.2	F ₂	5	..	40314b	82	2729	47.7	-61 40	7.9	7.1	B ₈	8	..	38828b
33	3528	47.4	-20 41	10.0	10.0	F ₀	3	..	40314b	83	1289	47.7	-71 56	9.5	9.6	A ₃	4	..	39198b
34	7511	47.4	-35 25	10.0	10.0	K ₀	2	..	39923b	84	1290	47.7	-72 3	9.9	9.9	A ₀	3	..	39198b
35	4841	47.4	-56 40	8.9	8.9	A ₀	3	..	40304b	85	1171	47.7	-72 13	9.0	9.6	Go	3	..	39198b
36	2720	47.4	-61 28	9.1	9.2	G ₅	2	..	38828b	86	982	47.8	+63 19	8.0	8.1	A ₂	5	..	38285i
37	1725	47.4	-64 50	var.	var.	Go	2	R	38828b	87	1909	47.8	+47 8	8.6	9.4	G ₅	4	..	37726i
38	1579	47.4	-68 21	8.7	9.9	K ₅	1	3,1	38924b	88	2445	47.8	+13 59	7.9	8.9	K ₀	5	..	38357i
39	1288	47.4	-72 0	9.1	10.2	K ₂	1	..	39198b	89	2501	47.8	- 0 42	9.3	9.8	F ₈	3	..	19342b
40	2472	47.5	+40 41	8.3	9.1	G ₅	2	..	17453i	90	3269	47.8	-19 9	8.7	9.3	A ₅	4	..	13147b
41	2225	47.5	+28 59	8.7	9.1	F ₅	2	..	38311i	91	10243	47.8	-23 55	8.7	9.3	K ₀	4	..	13147b
42	3346	47.5	-16 46	9.3	9.9	Go	3	..	40314b	92	8018	47.8	-33 21	4.40	4.38	B ₉	..	R	28,206
43	7744	47.5	-34 25	9.2	9.4	F ₅	5	..	22921b	93	7750	47.8	-35 1	10.2	10.3	F ₈	2	..	39923b
44	7514	47.5	-37 32	8.3	8.5	A ₀	6	..	13157b	94	7519	47.8	-37 47	7.57	8.8	K ₂	4	..	13157b
45	4807	47.5	-53 16	9.3	9.3	A ₀	3	..	40107b	95	7384	47.8	-38 44	8.2	9.5	K ₀	3	..	13157b
46	3454	47.5	-60 58	8.6	8.4	B ₀	4	..	38957b	96	7207	47.8	-47 42	9.2	9.5	K ₂	2	..	19003b
47	2014	47.5	-64 2	9.4	9.4	A	3	..	38828b	97	6573	47.8	-49 44	9.4	9.9	K ₅	2	..	19003b
48	693	47.5	-77 1	9.6	9.6	A ₀	2	..	39198b	98	1846	47.8	-67 56	8.7	9.9	K ₅	1	..	38923b
49	981	47.6	+63 29	8.0	8.8	G ₅	4	..	37718i	99	1600	47.8	-69 24	9.0	9.0	A ₀	2	..	38923b
50	1979	47.6	+48 6	8.2	8.7	F ₈	2	..	38429i	100	1291	47.8	-71 42	9.5	9.6	A ₂	2	..	39198b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

103200

11^h 47^m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	857	47.8	-74 48	9.9	9.9	Ao	1	..	39198b	51	2536	48.3	+ 4 12	9.5	10.1	Go	2	..	19342b
2	474	47.9	+74 22	9.5	10.3	G5	3	..	4907m	52	3197	48.3	- 3 19	8.3	9.5	K5	4	..	13418b
3	475	47.9	+73 51	7.64	8.64	Ko	5	0,8	37742i	53	3375	48.3	-16 2	7.7	8.0	Fo	9	..	40314b
4	3377	47.9	- 5 41	8.9	10.1	K5	1	..	13807b	54	3494	48.3	-18 13	9.8	10.6	G5	2	..	40314b
5	3492	47.9	-17 30	8.7	9.8	K2	5	..	40314b	55	10247	48.3	-24 1	8.7	8.8	G5	5	..	13147b
6	8836	47.9	-26 46	10.6	10.8	G5	2	..	40319b	56	7523	48.3	-35 29	9.8	11.2	F5	2	..	22921b
7	7356	47.9	-46 0	9.0	9.5	G5	1	..	19003b	57	7521	48.3	-36 1	6.66	7.4	Fo	..	0,9	56,130
8	6438	47.9	-50 14	9.6	9.6	Ko	1	..	19003b	58	4817	48.3	-53 22	9.1	8.6	Ao	5	..	40107b
9	6437	47.9	-50 32	9.4	8.9	Fo	4	..	40304b	59	1580	48.3	-69 6	8.8	9.6	G5	2	..	38923b
10	6138	47.9	-52 4	9.5	9.8	Fo	2	..	40304b	60	694	48.3	-76 17	9.3	10.4	K2	1	..	39198b
11	3897	47.9	-59 0	9.0	9.2	Ao	4	..	38957b	61	348	48.4	+82 30	8.6	9.1	F8	3	..	37465i
12	3892	47.9	-59 26	8.5	9.7	Ko	1	..	38957b	62	2537	48.4	+ 4 5	10.7	11.7	Ko	1	..	19342b
13	3461	47.9	-60 27	9.0	9.2	G5	3	..	38828b	63	8917	48.4	-26 8	11.6	11.8	Ko	1	..	40319b
14	1292	47.9	-71 31	9.4	10.4	Ko	1	..	39198b	64	9324	48.4	-32 6	9.9	10.4	F8	1	..	39923b
15	855	48.0	+65 36	8.2	9.0	G5	2	..	37718i	65	8381	48.4	-33 6	8.7	8.5	F2	6	..	22921b
16	2409	48.0	+17 25	8.7	9.1	F5	2	..	38229i	66	7760	48.4	-34 30	6.28	7.2	A2	8	..	21369b
17	3374	48.0	-15 44	8.8	8.9	A3	6	..	40314b	67	6446	48.4	-50 8	8.3	9.3	K2	3	..	19003b
18	3347	48.0	-17 2	9.1	9.7	Go	4	..	40314b	68	4823	48.4	-54 32	9.7	9.8	A3	2	..	40304b
19	6822	48.0	-41 13	8.0	8.3	A2	8	..	13157b	69	3901	48.4	-59 25	9.1	9.2	A2	1	..	38957b
20	7641	48.0	-44 55	9.0	8.9	G5	3	5,2	19003b	70	1729	48.4	-64 51	7.43	7.4	B8	8	..	38828b
21	6575	48.0	-49 27	8.5	8.4	A2	7	..	19003b	71	1439	48.4	-70 16	9.31	9.0	Ao	3	..	38923b
22	4848	48.0	-56 29	9.5	9.8	Fo	1	..	40304b	72	2165	48.5	+43 29	7.90	8.32	F5	5	0,6	17453i
23	3893	48.0	-59 13	8.7	8.7	B8	4	..	38957b	73	2556	48.5	+ 9 7	8.5	9.3	G5	5	..	11381b
24	2021	48.0	-63 51	9.4	9.4	Ao	3	..	38828b	74	2623	48.5	+ 1 38	8.7	9.3	Go	4	..	19342b
25	1728	48.0	-64 41	8.5	9.5	Ko	4	..	38828b	75	3158	48.5	- 4 31	9.1	10.1	Ko	1	..	13418b
26	1603	48.0	-69 19	8.4	9.6	K5	1	..	38923b	76	3376	48.5	-15 33	7.50	8.50	Ko	8	..	40314b
27	..	48.1	+76 14	..	..	A	2	..	4907m	77	8919	48.5	-25 29	9.9	10.3	G5	2	..	39950b
28	3427	48.1	-15 7	8.06	8.34	Fo	8	..	40314b	78	8845	48.5	-26 17	8.5	9.9	Ma	5	..	40319b
29	10018	48.1	-24 55	9.3	11.1	Ko	1	..	39950b	79	9149	48.5	-28 33	10.6	11.6	A2	1	..	40319b
30	8839	48.1	-26 9	10.8	11.8	Ko	1	..	40319b	80	8027	48.5	-33 16	10.2	11.1	F5	2	..	39923b
31	8838	48.1	-26 44	9.1	9.3	Go	6	..	40319b	81	7474	48.5	-46 11	7.1	7.4	G5	9	..	19003b
32	6141	48.1	-51 24	10.2	9.8	F2	2	..	40304b	82	6924	48.5	-48 25	9.1	9.3	Ao	6	..	19003b
33	4820	48.1	-54 27	9.3	9.3	B9	3	..	40304b	83	6922	48.5	-48 40	8.4	8.3	B8	8	..	19003b
34	4849	48.1	-56 10	8.4	8.9	Fo	5	..	40304b	84	4825	48.5	-54 23	9.0	9.5	F8	2	..	40304b
35	5076	48.1	-57 41	8.4	8.6	F5	4	..	38957b	85	3473	48.5	-60 43	8.3	8.4	Ao	4	..	38957b
36	2311	48.2	+16 32	8.9	9.5	Go	1	..	38229i	86	902	48.5	-73 25	9.2	10.4	K5	1	..	39198b
37	2554	48.2	+ 5 16	9.3	9.7	F5	4	..	19342b	87	1475	48.6	+54 15	2.54	2.54	Ao	..	R	2518c
38	3463	48.2	-14 2	8.8	8.9	A3	3	..	13419b	88	2268	48.6	+34 11	7.12	7.40	Fo	8	..	37727i
39	8914	48.2	-25 10	9.9	10.5	G5	2	..	39950b	89	2514	48.6	+19 20	9.0	10.0	Ko	1	..	38229i
40	8360	48.2	-27 50	8.5	9.3	Fo	6	..	40319b	90	3198	48.6	- 4 11	9.1	9.9	G5	2	..	13418b
41	8024	48.2	-34 8	9.8	11.1	Go	1	..	39923b	91	3428	48.6	-15 3	8.3	8.7	F5	7	..	40314b
42	7519	48.2	-35 48	9.3	9.5	F8	3	..	13157b	92	3362	48.6	-19 48	8.8	9.4	F8	3	..	13147b
43	4976	48.2	-52 32	8.5	9.0	B8	4	..	40304b	93	10252	48.6	-23 21	9.6	10.7	Ko	2	..	39950b
44	4822	48.2	-55 8	9.3	9.6	F2	3	..	40304b	94	8364	48.6	-27 43	8.1	9.0	F2	7	..	40319b
45	4852	48.2	-57 5	9.3	9.3	B9	2	..	38957b	95	8365	48.6	-28 5	9.4	11.0	G5	2	..	40319b
46	476	48.3	+74 19	6.78	7.28	F8	8	0,9	37742i	96	9525	48.6	-31 4	9.1	9.9	Ko	3	..	22921b
47	1407	48.3	+59 18	9.1	9.7	G	1	..	37718i	97	8384	48.6	-32 54	9.8	11.0	K5	1	..	39923b
48	1341	48.3	+56 52	8.0	8.5	F8	2	E	37718i	98	8028	48.6	-33 59	9.8	11.1	G5	2	..	22921b
49	2401	48.3	+23 27	9.3	10.3	Ko	2	..	38311i	99	7528	48.6	-35 53	9.6	9.5	A2	1	..	13157b
50	2350	48.3	+ 9 53	9.02	9.80	G5	2	..	11381b	100	7391	48.6	-38 48	8.2	9.7	K2	3	..	13157b

THE HENRY DRAPER CATALOGUE.

103300

11^h 48^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7215	48.6	-47 32	9.1	10.3	K2	1	..	19003b	51	734	49.0	+65 46	8.8	9.4	G	3	E	37718i
2	6926	48.6	-48 46	8.4	8.4	A0	8	..	19003b	52	1269	49.0	+61 35	9.5	10.3	G5	1	..	37718i
3	4826	48.6	-54 45	9.5	9.5	A0	3	..	40304b	53	2288	49.0	+38 29	8.8	9.2	F5	2	..	17453i
4	2751	48.6	-61 56	8.8	8.9	B9	2	..	38828b	54	2539	49.0	+18 43	7.76	8.26	F8	4	R	38229i
5	1730	48.6	-64 14	9.6	9.7	A2	3	..	38828b	55	2392	49.0	+12 37	8.1	9.1	K0	4	..	38357i
6	903	48.6	-73 59	8.8	9.3	F8	3	..	39198b	56	2352	49.0	+10 28	7.9	8.9	K0	2	..	38357i
7	760	48.6	-75 45	9.2	10.0	G5	1	..	39198b	57	2558	49.0	+ 9 28	8.6	9.1	F8	3	..	11381b
8	1360	48.7	+60 14	8.2	9.2	K0	3	..	37718i	58	2557	49.0	+ 8 55	9.3	9.7	F5	3	..	11381b
9	2244	48.7	+41 28	6.70	7.70	K0	7	..	17453i	59	2556	49.0	+ 5 33	8.7	9.0	F0	6	..	19342b
10	2372	48.7	+20 54	8.8	9.6	G5	3	..	38229i	60	2539	49.0	+ 3 48	10.7	11.7	K0	1	..	19342b
11	2447	48.7	+14 35	8.1	8.4	F0	6	..	38357i	61	3496	49.0	-17 24	8.5	8.6	A2	5	..	40314b
12	2409	48.7	+11 40	8.5	9.5	K0	2	..	38357i	62	10026	49.0	-24 13	9.7	10.8	K0	1	..	13147b
13	2624	48.7	+ 1 7	6.40	6.54	A5	10	..	19342b	63	8848	49.0	-26 34	10.4	10.0	G0	4	..	40319b
14	3200	48.7	-12 0	8.6	9.8	K5	1	..	13419b	64	8034	49.0	-33 57	10.0	11.1	K0	1	..	39923b
15	3429	48.7	-14 17	8.9	9.5	G0	3	..	13419b	65	7010	49.0	-40 52	8.3	8.5	A0	6	..	13157b
16	3350	48.7	-16 51	8.7	9.7	K0	4	..	40314b	66	6937	49.0	-48 37	9.8	9.6	A0	3	..	19003b
17	7761	48.7	-35 5	9.6	10.0	G5	1	..	22921b	67	6456	49.0	-51 7	10.2	9.5	A5	2	..	40304b
18	7500	48.7	-36 44	8.9	9.2	A3	3	..	13157b	68	3914	49.0	-59 57	9.2	9.2	A0	2	..	38957b
19	4697	48.7	-55 20	9.3	9.8	F8	2	..	40304b	69	3482	49.0	-60 25	9.2	9.2	A0	3	..	38828b
20	3910	48.7	-59 42	8.5	8.3	B5	4	..	38957b	70	3480	49.0	-61 6	8.6	9.7	K0	2	..	38828b
21	550	48.8	+72 28	7.54	7.96	F5	6	3,6	38333i	71	1582	49.0	-68 14	9.3	9.7	F5	1	..	38923b
22	1972	48.8	+45 17	8.9	9.2	F0	5	..	4906m	72	1440	49.0	-70 44	9.1	9.1	A0	4	..	39198b
23	1973	48.8	+45 13	10.2	11.2	K	1	..	4906m	73	1293	49.0	-71 15	8.6	8.7	A5	5	..	39198b
24	2474	48.8	+40 10	8.2	9.2	K0	3	..	17453b	74	1173	49.0	-72 52	8.6	9.1	F8	5	..	39198b
25	2058	48.8	+28 31	9.0	9.4	F5	2	..	38311i	75	1361	49.1	+59 54	9.16	10.16	K	1	..	37718i
26	2538	48.8	+ 3 47	10.7	11.9	K5	1	..	19342b	76	2515	49.1	+19 10	10.0	10.1	A2	1	..	38229i
27	3433	48.8	- 3 13	7.32	8.10	G5	9	..	13418b	77	3200	49.1	- 3 49	8.8	9.4	G0	4	..	13418b
28	3466	48.8	-13 49	9.6	10.4	G5	2	..	13419b	78	3475	49.1	- 6 50	8.5	8.5	A0	6	..	13807b
29	3364	48.8	-19 57	8.8	9.0	F0	4	..	13147b	79	3474	49.1	- 6 56	9.1	9.9	G5	2	..	13807b
30	10257	48.8	-23 54	9.3	9.9	K0	2	..	13147b	80	3351	49.1	-16 23	10.0	10.6	G0	1	..	40314b
31	8923	48.8	-25 16	8.80	9.6	K2	3	..	13147b	81	9413	49.1	-29 25	8.7	9.3	G5	6	..	40319b
32	8031	48.8	-33 52	8.2	10.5	K2	4	..	22921b	82	8387	49.1	-33 8	8.3	9.3	K0	4	..	22921b
33	7528	48.8	-37 52	7.8	8.8	K2	4	..	13157b	83	8038	49.1	-33 19	10.4	10.4	A	1	..	39923b
34	7009	48.8	-40 49	9.3	10.0	G5	1	..	13157b	84	8037	49.1	-34 6	9.0	11.1	K5	2	..	22921b
35	6588	48.8	-49 22	9.6	9.9	K2	1	..	19003b	85	4830	49.1	-54 37	8.5	9.5	K0	4	..	40304b
36	2756	48.8	-61 38	8.5	8.1	A0	7	..	38828b	86	1604	49.1	-69 22	8.6	9.6	K0	1	..	38923b
37	2396	48.8	-62 22	9.4	9.5	A2	2	..	38828b	87	1757	49.2	+46 40	10.5	11.5	K0	1	..	4906m
38	1731	48.8	-64 44	8.0	7.9	B5	7	..	38828b	88	1756	49.2	+45 46	10.5	11.6	K2	1	..	4906m
39	1667	48.8	-67 5	8.9	10.0	K2	2	..	38924b	89	2353	49.2	+10 36	7.6	8.0	F5	4	..	38357i
40	2555	48.9	+ 5 26	7.9	9.1	K5	6	..	19342b	90	3377	49.2	-15 28	9.8	10.6	G5	2	..	40314b
41	2507	48.9	- 0 29	8.5	9.6	K2	3	..	13418b	91	9530	49.2	-30 21	7.44	8.5	Ma	6	..	22921b
42	7284	48.9	-42 13	8.3	9.1	F5	3	..	13389b	92	7767	49.2	-34 19	9.3	9.5	F0	4	..	22921b
43	7353	48.9	-43 13	8.2	7.7	A0	5	..	13389b	93	7531	49.2	-35 26	8.1	8.3	A0	7	..	13157b
44	4828	48.9	-54 49	9.6	9.6	A0	3	..	40304b	94	7507	49.2	-37 2	8.9	9.2	K2	2	..	13157b
45	4859	48.9	-56 18	9.2	9.2	B9	4	..	40304b	95	7352	49.2	-39 19	8.2	10.3	K5	2	..	13157b
46	3908	48.9	-58 59	8.9	8.9	B8	3	..	38957b	96	7373	49.2	-45 16	8.8	8.3	F0	5	..	19003b
47	2398	48.9	-62 32	9.7	9.8	A3	1	..	38828b	97	6156	49.2	-51 55	9.8	9.5	B9	4	..	40304b
48	2399	48.9	-62 58	9.8	9.8	B9	1	..	38828b	98	4992	49.2	-52 54	8.6	9.0	A2	4	..	40107b
49	435	49.0	+76 27	10.2	11.3	K2	2	..	4907m	99	4831	49.2	-55 5	9.0	10.0	K0	1	..	40304b
50	551	49.0	+72 42	8.2	8.3	A3	5	..	37742i	100	4861	49.2	-56 51	6.26	7.3	A0	..	0,6-	56,130

ANNALS OF HARVARD COLLEGE OBSERVATORY.

103400

11^h 49^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2403	49.2	-63 1	9.5	9.5	B ₉	2	..	38828b	51	7292	49.6	-43 6	8.0	9.7	K ₅	2	..	13389b
2	1670	49.2	-66 28	8.8	9.8	K ₀	1	..	38924b	52	7360	49.6	-44 6	8.4	9.8	K ₀	1	..	13389b
3	1671	49.2	-67 7	8.3	9.4	K ₂	4	..	38924b	53	7648	49.6	-44 31	8.5	8.6	A ₀	4	0,4	19003b
4	477	49.3	+74 20	9.1	9.4	F ₂	7	0,4	4907m	54	7379	49.6	-45 29	9.4	10.3	K ₂	1	..	19003b
5	1912	49.3	+46 55	10.0	10.8	G ₅	2	..	4906m	55	6605	49.6	-49 18	9.6	9.8	K ₀	1	..	19003b
6	2166	49.3	+43 44	9.5	10.3	G ₅	2	..	4906m	56	4832	49.6	-54 7	8.8	8.9	A ₃	3	..	40107b
7	2541	49.3	+18 9	8.6	8.6	A	1	..	38229i	57	2031	49.6	-63 8	7.8	7.8	A ₀	7	..	38828b
8	2541	49.3	+4 36	8.35	9.35	K ₀	5	..	19342b	58	2524	49.7	+6 21	8.9	9.9	K ₀	3	..	19342b
9	3381	49.3	-6 14	8.9	9.7	G ₅	3	..	13807b	59	2510	49.7	-0 53	7.9	8.7	G ₅	7	..	13418b
10	3361	49.3	-10 48	9.2	10.2	K ₀	1	..	13419b	60	3202	49.7	-12 11	8.3	9.3	K ₀	2	..	13419b
11	3367	49.3	-20 13	10.2	11.0	G ₅	1	..	40314b	61	3238	49.7	-23 0	7.9	8.1	F ₅	6	..	13147b
12	9154	49.3	-28 49	9.9	10.7	A ₃	3	..	40319b	62	8930	49.7	-25 9	5.50	7.1	G ₅	..	..	56,130
13	9331	49.3	-31 28	10.1	11.1	K ₂	2	..	39923b	63	9161	49.7	-28 34	9.6	10.8	G ₅	2	..	40319b
14	6941	49.3	-48 23	10.2	10.1	A ₃	1	..	19003b	64	9537	49.7	-31 6	8.7	9.3	K ₀	5	..	22921b
15	5095	49.3	-58 6	8.5	9.5	K ₀	2	..	38957b	65	3922	49.7	-60 7	8.68	8.4	F ₀	4	..	38957b
16	1583	49.3	-68 42	9.3	9.3	A ₀	2	..	38923b	66	2772	49.7	-61 52	8.7	8.7	B ₉	4	..	38828b
17	1496	49.4	+54 48	8.81	9.59	G ₅	1	..	38321i	67	1734	49.7	-64 39	9.2	9.2	B ₉	5	..	38828b
18	2405	49.4	+24 22	8.8	9.8	K ₀	1	..	38311i	68	1854	49.7	-67 46	9.0	9.4	F ₅	1	..	38924b
19	2542	49.4	+18 27	8.6	9.4	G ₅	1	..	38229i	69	368	49.8	+80 14	9.5	10.3	G ₅	2	..	37465i
20	2448	49.4	+14 43	7.84	8.26	F ₅	5	..	38357i	70	378	49.8	+78 51	9.2	10.0	G ₅	2	..	38333i
21	2493	49.4	+7 3	9.7	10.9	K ₅	1	..	11381b	71	448	49.8	+77 25	9.2	9.5	F ₂	1	..	38333i
22	9155	49.4	-28 28	9.3	10.8	F ₈	2	..	40319b	72	462	49.8	+75 18	10.5	11.3	G ₅	3	..	4907m
23	7376	49.4	-45 56	8.2	8.1	G ₅	6	..	19003b	73	536	49.8	+73 43	10.0	10.4	F ₅	3	..	4907m
24	4827	49.4	-54 1	8.5	9.3	F ₈	2	..	40107b	74	537	49.8	+72 57	8.2	8.6	F ₅	5	0,8	38333i
25	4834	49.4	-54 56	10.0	10.0	A ₀	1	..	40304b	75	1595	49.8	+52 30	8.6	9.6	K ₀	1	..	38321i
26	4863	49.4	-56 24	6.95	8.7	Ma	..	0,5	56,130	76	2587	49.8	-1 50	8.7	9.7	K ₀	3	..	13418b
27	5096	49.4	-57 15	9.3	9.3	A ₀	1	..	38957b	77	3256	49.8	-8 51	8.7	9.1	F ₅	4	..	13807b
28	1442	49.4	-70 53	9.6	9.6	A ₀	2	..	39198b	78	3369	49.8	-19 57	9.8	11.1	K ₂	1	..	40314b
29	461	49.5	+75 2	9.7	10.7	K ₀	4	0,1	4907m	79	7775	49.8	-34 43	9.2	9.7	G ₅	2	..	22921b
30	2092	49.5	+49 28	7.42	8.42	K ₀	4	..	38429i	80	6843	49.8	-41 50	8.0	8.3	F ₀	7	..	13157b
31	2659	49.5	+19 59	8.4	9.2	G ₅	3	..	38229i	81	7295	49.8	-43 3	7.3	8.8	K ₀	5	..	13389b
32	2658	49.5	+19 58	8.4	9.0	G ₀	4	..	38229i	82	1744	49.8	-65 49	6.52	7.1	F ₂	9	..	38828b
33	3255	49.5	-9 10	8.3	9.3	K ₀	4	..	13807b	83	1913	49.9	+47 2	6.46	6.46	A ₀	8	2,10	37726i
34	3378	49.5	-15 54	10.0	10.3	F ₀	2	..	40314b	84	2560	49.9	+9 0	5.62	6.62	K ₀	9	R	38357i
35	3352	49.5	-16 30	9.3	9.9	G ₀	3	..	40314b	85	2493	49.9	+1 52	8.5	9.7	K ₅	4	..	19342b
36	3414	49.5	-21 21	8.3	8.7	F ₅	6	..	13147b	86	2858	49.9	+0 0	8.3	8.6	F ₂	5	..	13418b
37	7536	49.5	-37 11	6.53	7.2	F ₈	9	..	13157b	87	9162	49.9	-28 21	9.6	10.2	F ₅	3	..	40319b
38	6837	49.5	-41 29	8.0	8.8	K ₅	4	..	13157b	88	8393	49.9	-32 30	8.4	9.9	G ₅	3	..	22921b
39	4831	49.5	-53 10	9.1	9.8	K ₀	1	..	40107b	89	6612	49.9	-49 33	9.8	9.6	A ₀	2	..	19003b
40	4829	49.5	-54 4	8.4	9.2	G ₀	2	..	40107b	90	5012	49.9	-52 13	9.3	9.6	F ₀	3	..	40304b
41	4836	49.5	-54 10	8.8	9.2	F	3	..	40107b	91	5011	49.9	-52 33	9.9	9.9	A ₀	2	..	40107b
42	2406	49.5	-62 28	9.1	9.2	A ₂	4	..	38828b	92	4836	49.9	-53 16	9.6	9.6	A ₀	2	..	40107b
43	1672	49.5	-66 54	8.9	9.4	F ₈	2	..	38924b	93	4711	49.9	-55 32	6.92	7.4	G ₀	8	..	40304b
44	1606	49.5	-69 25	9.1	9.1	B ₉	2	..	38923b	94	3923	49.9	-58 39	9.0	9.0	B ₉	2	..	38957b
45	604	49.5	-80 38	9.9	10.0	A ₅	1	0,1 R	45456b	95	1746	49.9	-65 52	9.4	9.4	A ₀	3	..	38828b
46	2543	49.6	+4 19	9.7	10.2	F ₈	4	..	19342b	96	905	49.9	-73 40	9.4	9.4	A ₀	3	..	39198b
47	2569	49.6	+3 42	10.7	11.8	K ₂	1	..	19342b	97	482	49.9	-82 43	8.45	9.8	K ₂	2	2,2	45456b
48	3382	49.6	-5 24	9.15	10.22	K ₂	2	..	13807b	98	1914	50.0	+47 1	6.81	6.79	B ₉	7	1,10	37726i
49	3363	49.6	-10 29	8.3	8.4	A ₃	7	..	13419b	99	1974	50.0	+45 38	10.5	11.3	G ₅	1	..	4906m
50	9335	49.6	-31 34	9.7	9.3	G ₅	4	..	22921b	100	2230	50.0	+37 20	6.54	7.89	Mb	7	..	37727i

THE HENRY DRAPER CATALOGUE.

103500

11^h 50^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2544	50.0	+ 3 46	8.1	8.1	Ao	9	..	19342b	51	3385	50.3	- 5 39	9.3	10.1	G5	2	..	13807b
2	3354	50.0	-17 5	9.3	10.1	G5	2	..	40314b	52	8859	50.3	-26 23	10.8	11.4	F8	2	..	40319b
3	3274	50.0	-18 19	10.5	10.6	A3	1	..	40314b	53	9165	50.3	-28 15	11.6	11.6	A2	1	..	40319b
4	9338	50.0	-31 33	11.1	11.1	G5	1	..	39923b	54	9164	50.3	-28 26	9.9	9.9	G5	3	..	40319b
5	8044	50.0	-33 10	9.5	10.6	K2	1	..	22921b	55	8052	50.3	-33 28	9.8	11.1	F5	2	..	39923b
6	7777	50.0	-34 14	9.6	10.5	K5	1	..	22921b	56	7779	50.3	-35 6	9.13	9.4	F5	4	..	22921b
7	7356	50.0	-39 18	9.5	10.0	G5	2	..	13157b	57	4875	50.3	-56 47	9.1	9.2	A2	3	..	38957b
8	7014	50.0	-40 41	9.6	9.8	F8	2	..	13157b	58	2035	50.3	-63 29	9.1	9.1	Ao	3	..	38828b
9	6845	50.0	-41 46	8.6	8.5	F2	5	..	13157b	59	1747	50.3	-65 51	8.6	9.4	G5	3	..	38828b
10	6952	50.0	-48 11	8.6	8.9	F2	7	..	19003b	60	606	50.3	-80 47	9.0	10.0	Ko	1	2,1	13466b
11	6173	50.0	-51 35	9.6	10.1	Ko	2	..	40304b	61	2546	50.4	+ 4 5	8.7	9.0	Fo	7	..	19342b
12	4837	50.0	-53 46	9.8	9.8	Ao	2	..	40107b	62	10040	50.4	-24 58	10.1	10.5	A2	1	..	13147b
13	3924	50.0	-58 42	var.	var.	Md	..	R	56,201	63	8400	50.4	-32 53	8.0	9.0	K2	5	..	22921b
14	3929	50.0	-59 45	9.2	9.2	Ao	1	..	38957b	64	7523	50.4	-36 44	8.9	9.5	K2	3	..	13157b
15	2780	50.0	-62 1	7.6	9.2	Ma	4	..	38828b	65	7407	50.4	-39 3	9.3	9.4	F5	4	..	13157b
16	2408	50.0	-62 43	6.05	6.6	A2p	..	R	28,206	66	7364	50.4	-39 17	9.6	9.2	Ao	4	..	13157b
17	1443	50.0	-70 19	8.2	9.3	K2	3	..	38923b	67	6849	50.4	-41 20	7.6	7.9	A2	9	..	13157b
18	1554	50.1	+56 35	9.1	10.1	Ko	2	..	38321i	68	6478	50.4	-50 55	9.4	9.6	Go	2	..	40304b
19	2143	50.1	+44 34	10.5	11.7	K5	1	..	4906m	69	5018	50.4	-52 40	7.7	8.0	Ko	6	..	40107b
20	2478	50.1	+39 19	7.07	8.07	Ko	7	..	17453i	70	4718	50.4	-55 26	8.9	9.8	Ko	2	..	40304b
21	2588	50.1	- 2 0	9.3	10.1	G5	1	..	13418b	71	4878	50.4	-57 2	9.2	9.2	Ao	3	..	38957b
22	3438	50.1	- 2 53	8.5	9.0	F8	4	..	13418b	72	3935	50.4	-59 26	8.1	9.2	Ko	3	..	38957b
23	3418	50.1	-21 44	9.1	9.3	Fo	2	..	13147b	73	3934	50.4	-59 51	8.8	8.9	A2	2	..	38957b
24	9422	50.1	-29 17	9.6	10.5	A5	3	..	40319b	74	2036	50.4	-63 9	7.8	7.8	B8	6	..	38828b
25	9339	50.1	-31 55	9.9	10.5	Fo	3	..	22921b	75	1295	50.4	-71 16	8.4	8.4	Ao	6	..	39198b
26	6618	50.1	-49 38	9.1	8.9	A5	4	..	19003b	76	1985	50.5	+47 49	8.9	9.0	A3	2	..	38429i
27	4841	50.1	-53 16	9.7	9.8	A2	3	..	40107b	77	2404	50.5	+23 12	8.4	9.4	Ko	3	..	38311i
28	4841	50.1	-54 41	9.9	10.0	A2	2	..	40304b	78	2319	50.5	+16 12	5.49	5.55	A2	..	0,9 R	56,88
29	3381	50.2	-15 31	9.3	10.1	G5	4	..	40314b	79	3382	50.5	-15 23	9.25	10.32	K2	3	..	40314b
30	3505	50.2	-17 33	8.9	8.9	Ao	4	..	40314b	80	3242	50.5	-22 53	7.88	8.5	K5	3	..	13147b
31	3370	50.2	-20 14	10.6	10.8	F8	1	..	40314b	81	10041	50.5	-24 18	6.82	8.3	Ko	9	..	13147b
32	8379	50.2	-27 10	9.3	9.3	G5	5	..	40319b	82	8383	50.5	-27 34	9.1	9.9	Ko	4	..	40319b
33	8049	50.2	-33 50	9.5	10.7	K5	1	..	22921b	83	9167	50.5	-28 13	9.7	11.0	Ko	2	..	40319b
34	6846	50.2	-42 2	10.2	9.4	Ao	2	..	13389b	84	7655	50.5	-45 0	9.28	10.5	K5	1	..	19003b
35	7365	50.2	-43 26	9.2	9.8	K5	2	..	15605b	85	6481	50.5	-51 7	10.0	9.6	A2	2	..	40304b
36	605	50.2	-80 27	8.9	8.9	Ao	3	0,2	45456b	86	6180	50.5	-51 12	8.0	9.3	K5	2	..	40304b
37	478	50.3	+74 12	10.5	11.0	F8	2	..	4907m	87	6181	50.5	-51 55	10.2	10.1	G5	1	..	40304b
38	538	50.3	+73 1	10.2	10.8	Go	6	..	4907m	88	4845	50.5	-53 35	9.4	10.0	Go	1	..	40107b
39	666	50.3	+67 49	7.47	8.03	Go	5	..	37554i	89	2788	50.5	-61 38	8.1	8.1	F2	7	..	38828b
40	1497	50.3	+55 20	8.3	8.4	A3	3	..	38321i	90	1855	50.5	-67 48	8.7	8.7	Ao	3	..	38924b
41	1713	50.3	+51 34	8.2	8.8	Go	2	..	38321i	91	872	50.6	+64 23	9.1	9.7	G	2	..	37718i
42	2293	50.3	+35 4	8.6	9.4	G5	3	..	37727i	92	1362	50.6	+60 14	8.2	8.8	Go	3	..	37718i
43	2270	50.3	+26 5	7.04	8.04	Ko	6	..	38311i	93	3201	50.6	- 3 29	8.7	9.7	Ko	2	..	13418b
44	2451	50.3	+14 11	8.5	8.9	F5	3	..	38357i	94	3316	50.6	- 7 39	8.7	9.5	G5	1	..	13807b
45	2562	50.3	+ 9 41	9.32	10.32	Ko	1	..	11381b	95	3473	50.6	-14 4	8.8	9.6	G5	2	..	13419b
46	2525	50.3	+ 6 24	8.7	9.0	F2	6	..	19342b	96	8384	50.6	-27 55	6.12	8.0	K5	8	..	40319b
47	2572	50.3	+ 2 51	9.0	9.3	Fo	4	..	19342b	97	7388	50.6	-45 38	9.0	10.1	K5	1	..	19003b
48	2628	50.3	+ 1 39	7.09	7.43	F2	9	..	19342b	98	5020	50.6	-53 7	9.9	9.9	Ao	1	..	40107b
49	3439	50.3	- 3 2	8.5	9.1	Go	5	..	13418b	99	4850	50.6	-53 37	8.4	8.9	F2	5	..	40107b
50	3162	50.3	- 4 34	7.10	7.16	A2	4	0,9	19178b	100	4849	50.6	-53 59	10.0	10.0	Ao	2	..	40107b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

103600

11^h 50^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3504	50.6	-60 16	9.68	9.2	A0	2	..	38957b	51	7372	51.0	-43 42	8.8	10.1	K	1	..	13389b
2	1749	50.6	-65 22	9.5	10.0	F8	2	..	38828b	52	3942	51.0	-59 39	8.4	8.0	B5	5	..	38957b
3	1296	50.6	-71 57	9.8	9.9	A5	1	..	39198b	53	2436	51.0	-62 22	9.5	9.5	B9	1	..	38828b
4	659	50.6	-79 9	8.9	9.7	G5	2	..	13467b	54	2434	51.0	-62 38	9.2	9.2	A0	2	..	38828b
5	1343	50.7	+57 9	5.93	6.93	K0	8	0,8	38321i	55	2039	51.0	-64 4	8.4	9.4	K0	4	..	38828b
6	10043	50.7	-24 35	8.4	8.5	A2	5	..	13147b	56	1738	51.0	-64 12	9.8	9.8	A0	2	..	38828b
7	8385	50.7	-27 28	10.6	11.8	K5	1	..	40319b	57	1859	51.0	-67 13	9.9	10.0	A2	1	..	38924b
8	9353	50.7	-31 54	9.7	11.1	K0	2	..	22921b	58	2168	51.1	+43 35	10.0	10.5	F8	2	..	4906m
9	6489	50.7	-50 20	8.8	10.1	K5	1	..	19003b	59	2225	51.1	+36 1	6.55	6.89	F2	8	0,9	38401i
10	5105	50.7	-57 25	9.1	9.2	A5	4	..	38957b	60	2234	51.1	+29 25	7.46	8.46	K0	5	..	38311i
11	1858	50.7	-67 59	7.7	9.1	Ma	3	..	38924b	61	2320	51.1	+16 18	8.5	9.9	Mb	..	..	M
12	2248	50.8	+41 12	6.97	7.97	K0	6	..	17453i	62	2358	51.1	+10 28	8.5	9.1	Go	2	..	38357i
13	2223	50.8	+35 54	6.84	7.26	F5	7	0,8	38401i	63	3359	51.1	-16 43	9.3	9.9	Go	3	..	40314b
14	2271	50.8	+26 3	9.0	9.6	Go	4	..	38311i	64	3537	51.1	-20 26	9.3	11.0	K5	1	..	40314b
15	3372	50.8	-19 18	9.3	10.1	F0	3	..	40314b	65	3538	51.1	-20 57	9.3	10.7	K2	1	..	40314b
16	3535	50.8	-21 6	7.7	8.0	G5	6	..	13147b	66	9177	51.1	-28 47	11.3	11.4	A5	1	..	40319b
17	8863	50.8	-26 54	9.4	10.2	K0	3	..	40319b	67	9434	51.1	-29 37	10.6	11.1	F8	2	..	40319b
18	9429	50.8	-29 15	9.6	10.3	Go	3	..	40319b	68	9356	51.1	-31 40	9.3	10.2	K0	3	..	22921b
19	7370	50.8	-43 57	8.9	8.6	A0	4	..	13389b	69	7397	51.1	-45 32	9.8	9.5	F8	2	..	19003b
20	6491	50.8	-50 24	8.8	9.5	K5	2	..	19003b	70	7244	51.1	-47 47	9.8	10.4	K0	1	..	19003b
21	5021	50.8	-52 21	8.9	9.9	K0	1	..	40304b	71	4727	51.1	-55 53	8.7	8.7	B8	4	..	40304b
22	5022	50.8	-52 40	9.8	9.9	A2	2	..	40107b	72	2041	51.1	-63 8	9.3	9.4	A5	2	..	38828b
23	4723	50.8	-56 1	8.8	9.8	K0	1	..	40304b	73	697	51.1	-76 27	8.9	9.7	G5	3	..	39198b
24	4886	50.8	-56 40	9.2	9.2	A0	2	..	38957b	74	591	51.2	+70 50	8.8	9.8	K0	2	..	37554i
25	2429	50.8	-62 30	9.8	9.8	A0	1	..	38828b	75	1408	51.2	+59 3	8.8	9.3	F8	4	..	37718i
26	1759	50.9	+46 6	9.5	10.0	F8	5	..	4906m	76	2070	51.2	+27 15	6.87	7.21	F2	8	..	38311i
27	2407	50.9	+24 1	9.6	10.4	G5	1	..	38311i	77	3207	51.2	-11 43	8.8	9.2	F5	3	..	13419b
28	2421	50.9	+22 34	8.0	8.5	F8	4	..	38229i	78	3435	51.2	-14 57	8.8	9.1	F0	5	..	40314b
29	2547	50.9	+3 47	9.3	9.4	A3	7	..	19342b	79	6631	51.2	-49 18	8.3	8.6	B9	8	..	19003b
30	2629	50.9	+1 33	9.3	10.4	K2	1	..	19342b	80	1589	51.2	-68 15	9.1	9.1	A0	2	..	38923b
31	2512	50.9	-0 54	8.5	8.9	F5	4	..	13418b	81	1346	51.3	+58 25	var.	var.	Md	..	R	M
32	3358	50.9	-16 35	5.16	5.16	A0	..	R	56,88	82	1976	51.3	+45 36	10.2	10.7	F8	2	..	4906m
33	3373	50.9	-20 5	10.13	11.1	K2	1	..	40314b	83	2256	51.3	+42 35	7.15	8.15	K0	7	..	17453b
34	3422	50.9	-21 37	7.7	8.3	K2	6	..	13147b	84	2295	51.3	+35 28	7.54	8.54	K0	5	..	37727i
35	10045	50.9	-24 22	8.2	8.7	K0	5	..	13147b	85	2452	51.3	+14 45	6.94	7.94	K0	5	E	38357i
36	8060	50.9	-33 40	9.8	9.9	F2	3	..	22921b	86	3510	51.3	-17 33	9.1	9.1	A0	5	..	40314b
37	7410	50.9	-39 8	6.30	7.7	K0	5	0,10	43289b	87	9551	51.3	-30 38	9.3	10.5	K2	4	..	22921b
38	6192	50.9	-51 8	9.2	9.9	K2	1	..	40304b	88	8068	51.3	-33 43	9.2	10.6	Ma	1	..	39923b
39	5024	50.9	-52 11	9.2	9.8	Go	2	..	40304b	89	7415	51.3	-38 32	9.5	10.1	A0	2	..	13157b
40	4887	50.9	-56 12	9.3	9.3	A0	2	..	40304b	90	737	51.4	+65 47	6.72	7.50	G5	5	0,8	37554i
41	540	51.0	+73 19	10.5	11.3	G5	1	..	4907m	91	1915	51.4	+47 14	8.6	9.6	K0	2	..	38429i
42	539	51.0	+73 7	10.2	11.2	K0	2	..	4907m	92	1761	51.4	+46 24	9.2	9.8	Go	4	..	4906m
43	1345	51.0	+58 44	8.6	9.7	K2	2	..	37718i	93	2169	51.4	+43 3	9.0	9.5	F8	4	..	4906m
44	2231	51.0	+36 49	8.2	9.2	K0	3	..	37727i	94	2550	51.4	+7 51	9.3	10.4	K2	1	..	11381b
45	2270	51.0	+33 45	8.4	9.0	G	2	..	37727i	95	2549	51.4	+4 36	8.25	8.31	A2	7	..	19342b
46	2860	51.0	-0 15	9.7	10.1	F5	2	..	19342b	96	3477	51.4	-14 9	9.3	10.5	K5	2	..	13419b
47	3474	51.0	-14 7	9.3	9.8	F8	2	..	13419b	97	3425	51.4	-21 30	8.9	9.2	Go	3	..	13147b
48	3384	51.0	-15 55	9.6	10.6	K0	2	..	40314b	98	9360	51.4	-31 38	10.1	9.6	F0	4	..	22921b
49	3374	51.0	-19 26	9.3	10.7	G5	1	..	40314b	99	8406	51.4	-32 36	9.3	11.1	K2	1	..	22921b
50	6858	51.0	-41 54	10.0	10.3	K5	1	..	15605b	100	7560	51.4	-35 12	10.2	10.0	F5	2	..	39923b

THE HENRY DRAPER CATALOGUE.

103700

11^h 51^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6967	51.4	-48 14	8.9	9.0	A3	6	..	19003b	51	2413	51.8	+11 5	8.4	8.7	F2	4	..	38357i
2	4859	51.4	-53 20	8.2	8.7	Fo	5	..	40107b	52	2576	51.8	+ 2 58	8.5	9.6	K2	4	..	19342b
3	3939	51.4	-58 16	8.5	8.3	F2	5	..	38957b	53	3532	51.8	-13 11	6.52	7.02	F8	10	..	13419b
4	2044	51.4	-63 59	9.0	9.8	G5	3	..	38828b	54	3512	51.8	-18 3	9.6	10.4	G5	2	..	40314b
5	986	51.5	+63 26	7.9	8.9	Ko	4	..	37718i	55	8871	51.8	-26 55	11.1	11.6	Ko	1	..	40319b
6	1762	51.5	+45 57	9.2	10.0	G5	3	..	4906m	56	8399	51.8	-27 12	11.1	11.4	Go	1	..	40319b
7	2250	51.5	+41 36	8.8	9.9	K2	2	..	17453i	57	8398	51.8	-27 35	9.9	10.2	Fo	3	..	40319b
8	3207	51.5	- 4 3	8.9	9.5	Go	4	..	13807b	58	9555	51.8	-30 54	11.1	11.1	A2	2	..	22921b
9	8940	51.5	-25 53	10.1	9.9	F5	4	..	40319b	59	7562	51.8	-37 45	8.9	9.1	A2	4	..	13157b
10	8941	51.5	-25 58	9.1	9.3	Ko	5	..	40319b	60	7418	51.8	-38 17	7.79	8.8	G5	6	..	13157b
11	9553	51.5	-30 30	11.1	10.8	F8	2	..	22921b	61	4863	51.8	-54 15	9.4	9.5	A2	3	..	40107b
12	7402	51.5	-45 46	9.6	9.2	Ao	3	..	19003b	62	3959	51.8	-59 16	8.8	8.0	B5	4	..	38957b
13	6500	51.5	-50 12	9.1	9.5	Ko	4	..	19003b	63	2813	51.8	-61 14	9.0	9.0	B8	3	..	38828b
14	2046	51.5	-63 14	8.0	8.0	B9	6	..	38828b	64	2814	51.8	-62 3	8.6	9.2	B5	2	..	38828b
15	1445	51.5	-71 6	9.0	8.8	Bo	5	..	39198b	65	2049	51.8	-63 30	9.7	9.7	Ao	1	..	38828b
16	1180	51.5	-72 29	10.0	10.1	A2	1	..	39198b	66	1612	51.8	-69 36	7.8	7.8	B9	7	..	38923b
17	698	51.5	-78 23	9.4	9.7	F2	1	..	45481b	67	1479	51.9	+53 52	9.8	10.4	G	1	..	38321i
18	1274	51.6	+61 3	8.0	8.1	A3	5	..	37718i	68	1986	51.9	+48 21	8.4	9.2	G5	1	..	38429i
19	2172	51.6	+32 46	8.2	9.2	Ko	3	..	37726i	69	2257	51.9	+41 56	8.8	9.9	K2	2	..	17453i
20	2594	51.6	- 2 14	10.3	11.3	Ko	1	..	13418b	70	2252	51.9	+40 50	7.20	8.27	K2	5	..	17453i
21	3396	51.6	-10 10	7.41	7.75	F2	9	..	13419b	71	2558	51.9	+ 4 51	9.5	9.6	A3	3	..	19342b
22	3277	51.6	-19 14	8.7	10.1	K2	3	..	40314b	72	2631	51.9	+ 1 11	8.9	9.2	Fo	4	..	19342b
23	3540	51.6	-20 52	9.8	10.7	Go	2	..	40314b	73	3210	51.9	- 4 13	6.87	7.29	F5	10	..	13807b
24	8071	51.6	-34 3	9.6	9.9	Fo	3	..	22921b	74	3211	51.9	-11 33	7.14	7.56	F5	9	..	13419b
25	7563	51.6	-35 56	8.9	10.0	Ko	3	..	39923b	75	5041	51.9	-52 57	8.7	9.6	Ko	2	..	40107b
26	7541	51.6	-36 44	9.5	10.0	F8	2	..	39923b	76	4864	51.9	-53 56	8.2	8.3	Ao	6	..	40107b
27	7376	51.6	-39 48	8.9	10.3	Ko	2	..	13157b	77	5122	51.9	-57 51	8.4	9.5	K2	1	..	38957b
28	7377	51.6	-40 5	8.9	10.1	Ko	1	..	13157b	78	3522	51.9	-60 56	9.2	9.2	B9	2	..	38828b
29	7666	51.6	-44 59	8.78	9.5	K5	1	..	13389b	79	2455	51.9	-62 41	7.33	7.4	Bo	7	..	38828b
30	6501	51.6	-50 59	8.9	9.8	K2	1	..	40304b	80	2273	52.0	+33 55	9.3	10.3	K	2	..	37727i
31	4895	51.6	-56 22	9.3	9.3	B8	2	..	38957b	81	2071	52.0	+27 43	8.7	9.7	Ko	1	..	38311i
32	5118	51.6	-57 52	9.6	9.6	Ao	1	..	38957b	82	2531	52.0	+ 6 1	9.0	9.4	F5	4	..	19342b
33	3516	51.6	-60 24	9.8	9.8	A	1	..	38957b	83	3211	52.0	- 3 34	8.9	9.7	G5	3	..	13418b
34	2444	51.6	-62 42	9.4	9.2	B3	4	..	38828b	84	3264	52.0	- 8 52	9.6	9.7	A3	2	..	41227b
35	1181	51.6	-72 24	9.8	9.9	A5	2	..	39198b	85	3514	52.0	-17 50	9.2	10.3	K2	3	..	40314b
36	1204	51.7	+62 6	6.28	7.06	G5	8	..	37718i	86	3375	52.0	-19 32	9.8	10.7	G5	1	..	40314b
37	1516	51.7	+53 39	8.7	9.7	Ko	2	..	38321i	87	10050	52.0	-24 54	8.3	9.0	F8	4	..	13147b
38	1517	51.7	+52 51	8.8	9.8	Ko	1	..	38321i	88	9444	52.0	-29 37	9.9	11.1	F8	3	..	40319b
39	2251	51.7	+40 55	8.8	9.3	F8	3	..	17453i	89	8413	52.0	-32 45	6.29	6.9	Ao	8	..	21369b
40	2529	51.7	+ 5 54	7.5	8.5	Ko	8	..	19342b	90	6507	52.0	-51 2	8.8	9.0	Ko	3	..	40304b
41	8397	51.7	-28 4	9.7	10.5	F8	2	..	40319b	91	5123	52.0	-57 45	8.4	8.7	Ao	6	..	38957b
42	9364	51.7	-31 42	8.5	8.5	Go	8	..	22921b	92	3526	52.0	-60 53	9.3	9.3	B9	3	..	38828b
43	9365	51.7	-31 42	7.03	8.4	Go	6	..	22921b	93	238	52.0	-86 51	9.1	10.3	K5	2	..	22238b
44	7027	51.7	-40 23	8.2	10.0	K5	2	..	13157b	94	987	52.1	+62 47	8.0	8.4	F5	5	..	37718i
45	7405	51.7	-45 8	9.08	9.2	A	2	..	13389b	95	1916	52.1	+47 7	9.1	10.2	K2	6	..	4906m
46	7521	51.7	-46 31	6.42	6.7	F2	5	0.5-	10814b	96	1977	52.1	+45 34	8.6	10.0	Ma	3	..	4906m
47	4860	51.7	-54 43	9.5	9.8	Fo	2	..	40304b	97	1978	52.1	+45 20	9.5	10.6	K2	2	..	4906m
48	1742	51.7	-64 41	10.0	10.0	B8	2	..	38828b	98	2170	52.1	+43 3	9.7	10.3	Go	3	..	4906m
49	1863	51.7	-67 45	8.8	9.3	F8	1	..	38924b	99	2253	52.1	+40 55	6.54	6.96	F5	8	..	17453i
50	2409	51.8	+24 10	9.3	9.9	Go	2	..	38311i	100	2407	52.1	+23 12	8.0	8.0	Ao	4	..	38229i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

103800

11^h 52^m.1

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3436	52.1	-14 54	9.3	9.6	Fo	4	..	40314b	51	9189	52.4	-28 15	9.9	10.8	F8	1	..	40319b
2	8078	52.1	-33 43	9.6	11.1	F8	2	..	22921b	52	9560	52.4	-30 57	9.4	10.8	G5	3	..	22921b
3	7802	52.1	-34 20	7.8	9.1	Ko	5	..	22921b	53	9374	52.4	-31 59	9.6	10.5	Go	2	..	22921b
4	7409	52.1	-46 3	10.9	10.1	Ao	1	..	19003b	54	7424	52.4	-38 39	9.2	9.8	G5	2	..	13157b
5	6208	52.1	-51 32	6.74	8.0	Ko	5	0,8	10814b	55	7259	52.4	-48 6	8.4	9.2	G5	3	..	19003b
6	4736	52.1	-55 21	8.5	9.2	Ko	3	..	40107b	56	6984	52.4	-48 48	6.68	7.7	A3	5	2,9 R	10814b
7	2459	52.1	-63 7	8.0	8.5	F8	6	..	38828b	57	5052	52.4	-52 17	9.1	9.9	Go	2	..	40304b
8	2050	52.1	-63 43	10.0	10.0	Ao	2	..	38828b	58	4739	52.4	-55 49	9.2	9.2	Ao	3	..	40107b
9	463	52.2	+74 48	10.5	11.3	G5	1	..	4907m	59	3530	52.4	-60 34	7.3	9.2	K2	4	..	38957b
10	1345	52.2	+57 40	8.3	8.6	F2	4	..	37718i	60	2054	52.4	-64 2	9.3	9.4	A2	3	..	38828b
11	2144	52.2	+43 55	9.1	10.1	Ko	4	..	4906m	61	1757	52.4	-65 15	9.7	9.7	B9	2	..	38828b
12	2255	52.2	+41 28	9.0	9.8	G5	1	..	17453i	62	699	52.4	-76 53	8.8	10.0	K5	1	..	45481b
13	2073	52.2	+27 19	7.44	8.44	Ko	3	..	38311i	63	541	52.5	+73 33	8.8	9.1	F2	6	0,4	4907m
14	2408	52.2	+23 32	8.6	9.1	F8	3	..	38311i	64	3387	52.5	-15 44	8.9	9.9	Ko	3	..	40314b
15	3212	52.2	-3 25	9.1	10.3	K5	1	..	13418b	65	3362	52.5	-16 44	9.8	10.8	Ko	2	..	40314b
16	3385	52.2	-15 54	9.1	9.5	F5	5	..	40314b	66	10293	52.5	-24 7	8.7	8.6	F8	4	..	13147b
17	3432	52.2	-21 59	7.32	7.6	F5	9	..	13147b	67	8952	52.5	-25 58	9.4	9.9	Ko	4	..	40319b
18	3248	52.2	-22 57	8.7	9.8	F5	1	..	13147b	68	8875	52.5	-26 29	6.99	7.6	F5	8	..	40319b
19	8949	52.2	-26 2	9.7	10.2	Ko	3	..	40319b	69	8419	52.5	-32 24	7.76	9.3	K2	6	..	22921b
20	9187	52.2	-28 33	9.3	9.6	F2	3	..	40319b	70	7567	52.5	-37 56	7.12	7.5	Ao	4	0,9	43289b
21	9445	52.2	-29 27	11.1	12.3	K5	1	..	40319b	71	6651	52.5	-49 39	9.4	8.9	A3	5	..	19003b
22	7803	52.2	-34 38	7.63	9.1	K5	5	..	22921b	72	3532	52.5	-60 59	8.9	8.6	B8	4	..	38828b
23	7566	52.2	-35 31	8.9	9.7	G5	3	..	22921b	73	1747	52.5	-64 11	9.8	9.8	Ao	2	..	38828b
24	7322	52.2	-42 53	9.8	10.1	A5	1	..	15605b	74	1591	52.5	-68 55	9.3	9.3	Ao	1	..	38923b
25	7529	52.2	-46 24	9.4	10.1	Ko	1	..	19003b	75	661	52.5	-79 56	7.50	7.6	Ao	6	0,6	13466b
26	5128	52.2	-57 54	8.4	8.6	Ao	5	..	38957b	76	725	52.6	+67 38	8.2	8.3	A2	3	E	37554i
27	1756	52.2	-66 2	9.7	9.7	Ao	1	..	38924b	77	2546	52.6	+18 2	6.91	7.25	F2	6	0,6 R	3866oi
28	1411	52.3	+58 52	8.8	9.4	Go	4	..	37718i	78	2362	52.6	+10 41	8.7	9.5	G5	3	..	11381b
29	1480	52.3	+54 7	9.2	9.7	F8	1	..	38321i	79	2497	52.6	+7 45	9.7	10.7	Ko	1	..	11381b
30	1763	52.3	+46 18	9.5	10.1	Go	5	..	4906m	80	2499	52.6	+7 32	7.9	8.9	Ko	6	..	11381b
31	2233	52.3	+37 43	9.6	10.2	Go	1	..	17453i	81	2498	52.6	+6 51	9.0	10.0	Ko	2	..	11381b
32	2577	52.3	+3 36	9.0	10.0	Ko	3	..	19342b	82	4872	52.6	-54 15	8.9	10.0	K2	1	..	40107b
33	2864	52.3	+0 40	9.7	10.9	K5	1	..	19342b	83	3949	52.6	-59 0	9.2	9.2	Ao	2	..	38957b
34	3372	52.3	-11 15	8.5	9.6	K2	3	..	13419b	84	2829	52.6	-61 53	5.70	5.58	B5	..	2,4	28,206
35	3283	52.3	-19 5	10.2	11.2	Ko	1	..	40314b	85	479	52.7	+74 20	9.1	9.4	F2	6	3,3 R	4907m
36	8950	52.3	-25 35	9.6	10.0	K2	5	..	40319b	86	990	52.7	+62 55	9.8	10.2	F5	2	..	37718i
37	8873	52.3	-27 2	10.6	11.6	Ko	1	..	40319b	87	1275	52.7	+61 1	8.02	9.09	K2	4	..	37718i
38	8415	52.3	-32 12	10.4	11.1	A	1	..	22921b	88	1764	52.7	+45 51	9.5	10.3	G5	4	..	4906m
39	8416	52.3	-32 26	10.0	11.1	Ko	1	..	39923b	89	2565	52.7	+9 33	7.9	8.9	Ko	8	..	11381b
40	6982	52.3	-48 11	8.4	9.0	Go	7	..	19003b	90	3323	52.7	-7 43	7.6	8.1	F8	6	..	13807b
41	4867	52.3	-53 18	9.0	9.2	Fo	3	..	40107b	91	3322	52.7	-7 59	6.58	7.14	Go	10	..	13807b
42	5131	52.3	-57 29	8.5	9.5	K2	1	..	38957b	92	3265	52.7	-8 26	9.2	10.0	G5	1	..	13807b
43	2462	52.3	-62 35	9.2	9.2	B8	2	..	38828b	93	3400	52.7	-9 36	8.1	9.2	K2	6	..	13419b
44	767	52.3	-76 1	9.9	9.9	Ao	1	..	39198b	94	3401	52.7	-9 50	9.6	10.2	Go	2	..	13807b
45	1987	52.4	+48 20	8.3	9.3	Ko	1	..	38429i	95	3388	52.7	-15 31	9.6	10.7	K2	3	..	40314b
46	2237	52.4	+29 7	8.0	8.3	F2	5	..	38311i	96	10057	52.7	-24 13	9.7	9.3	Ao	3	..	13147b
47	2661	52.4	+20 33	8.0	8.8	G5	3	..	38229i	97	7556	52.7	-37 5	8.7	10.0	Mb	3	5,1	39923b
48	3398	52.4	-9 45	9.3	10.3	Ko	2	..	13807b	98	7425	52.7	-38 45	9.6	10.0	A	2	..	13157b
49	3361	52.4	-16 27	10.0	10.3	Fo	2	..	40314b	99	7677	52.7	-44 47	9.0	8.7	A3	4	..	13389b
50	3249	52.4	-22 39	8.7	10.4	K5	1	..	13147b	100	3952	52.7	-59 3	9.1	9.0	Ao	2	..	38957b

THE HENRY DRAPER CATALOGUE.

103900

11^h 52^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3964	52.7	-59 53	6.87	8.0	Ko	7	..	38957b	51	4747	53.1	-55 9	8.7	9.3	F2	4	..	40107b
2	388	52.8	+81 11	8.23	8.73	F8	5	..	37465i	52	1298	53.1	-71 50	9.1	9.7	Go	2	..	39198b
3	667	52.8	+68 22	7.07	8.14	K2	6	2,6	38683i	53	1206	53.2	+62 2	6.66	7.44	G5	6	..	37718i
4	1765	52.8	+46 5	9.0	10.0	Ko	5	..	4906m	54	2171	53.2	+43 15	8.2	8.7	F8	3	0,7	17453i
5	3363	52.8	-16 52	10.0	10.8	G5	2	..	40314b	55	2425	53.2	+22 21	8.4	9.4	Ko	3	E	38229i
6	3517	52.8	-17 33	8.5	9.0	F8	7	..	40314b	56	2562	53.2	+5 9	9.3	9.6	Fo	3	..	19342b
7	3285	52.8	-18 25	7.7	8.7	Ko	7	..	40314b	57	3365	53.2	-17 6	10.0	11.0	Ko	1	..	40314b
8	3545	52.8	-20 46	8.6	9.8	K2	2	..	13147b	58	3380	53.2	-19 31	9.3	10.1	Go	3	..	40314b
9	9453	52.8	-30 6	10.10	11.1	K2	1	..	40319b	59	8425	53.2	-32 54	9.6	11.0	G5	2	0,1	39923b
10	7386	52.8	-43 9	7.5	7.3	Ao	7	..	13389b	60	8089	53.2	-33 32	9.2	11.1	G5	1	..	39923b
11	7536	52.8	-46 13	9.1	8.0	A2	4	..	19003b	61	4751	53.2	-55 45	5.64	5.9	B8	..	1,9	56,130
12	2098	52.9	+48 46	8.2	9.2	Ko	3	..	38429i	62	3971	53.2	-59 12	7.4	7.1	Ao	4	0,6	43211b
13	2442	52.9	+25 42	8.0	8.5	F8	5	..	38311i	63	535	53.2	-81 58	8.8	9.4	Go	3	0,2-	45456b
14	2457	52.9	+14 36	8.29	9.07	G5	3	E	38357i	64	1918	53.3	+46 47	9.5	10.7	K5	3	..	4906m
15	2559	52.9	+4 54	9.11	10.29	K5	2	..	19342b	65	2207	53.3	+32 28	8.3	9.3	Ko	3	..	37727i
16	3479	52.9	-13 33	8.7	8.8	A3	5	..	13419b	66	2076	53.3	+27 24	8.4	8.4	Ao	3	..	38311i
17	3364	52.9	-17 7	9.6	9.9	Fo	3	..	40314b	67	2363	53.3	+10 6	8.7	9.1	F5	6	..	11381b
18	10298	52.9	-23 56	8.9	8.0	Ao	6	..	13147b	68	3487	53.3	-7 4	9.3	10.1	G5	2	..	13807b
19	9565	52.9	-30 49	9.9	11.1	Ko	3	5,1	40319b	69	3407	53.3	-9 23	9.3	9.9	G	2	..	13807b
20	7036	52.9	-41 1	9.2	9.4	F5	1	..	13389b	70	3405	53.3	-9 28	9.3	10.5	K5	2	..	13419b
21	7267	52.9	-47 30	10.0	10.1	Ko	1	..	19003b	71	3406	53.3	-9 44	9.8	11.0	K5	1	..	13807b
22	4914	52.9	-56 18	7.6	8.7	Ko	5	..	38957b	72	7578	53.3	-35 26	9.6	10.3	Ko	2	..	39923b
23	3967	52.9	-59 31	9.2	9.2	Ao	2	..	38957b	73	7431	53.3	-39 4	7.7	8.5	A3	7	..	13157b
24	1751	52.9	-64 46	8.2	8.5	F2	7	..	38828b	74	7041	53.3	-40 23	6.81	8.3	Ko	8	..	13157b
25	863	52.9	-74 49	8.8	9.9	K2	3	..	39198b	75	7273	53.3	-47 25	6.88	7.2	F5	4	3,10	10814b
26	769	52.9	-76 3	9.7	10.7	Ko	1	..	39198b	76	6533	53.3	-50 57	8.4	8.6	Go	3	..	40107b
27	1481	53.0	+54 45	8.51	8.93	F5	2	..	38321i	77	5070	53.3	-52 46	9.9	9.9	Ao	2	..	40107b
28	2174	53.0	+32 50	6.30	6.58	Fo	9	..	37727i	78	4877	53.3	-54 41	8.7	9.5	G5	3	..	40107b
29	3213	53.0	-3 49	7.06	7.40	F2	9	..	13807b	79	2067	53.3	-63 59	9.7	9.7	Ao	2	..	38828b
30	3520	53.0	-17 51	10.2	10.8	G	1	..	40314b	80	1594	53.3	-68 59	9.0	9.0	Ao	2	..	38923b
31	3287	53.0	-18 39	9.6	10.1	F8	1	..	40314b	81	909	53.3	-73 29	10.0	10.0	Ao	1	..	39198b
32	8883	53.0	-27 7	7.16	8.0	K5	7	R	40319b	82	464	53.4	+74 53	10.5	11.0	F8	2	..	4907m
33	9568	53.0	-31 5	7.24	7.7	F5	9	..	22921b	83	679	53.4	+70 33	8.9	9.9	Ko	3	..	37554i
34	7557	53.0	-36 54	9.5	10.3	K5	1	..	13157b	84	1989	53.4	+48 19	7.05	7.39	F2	8	..	38429i
35	4874	53.0	-54 50	9.8	9.8	Ao	3	..	40107b	85	2485	53.4	+40 45	8.1	9.2	K2	3	..	17453i
36	4876	53.0	-54 58	8.90	9.2	G5	4	..	40107b	86	2208	53.4	+31 52	8.6	9.2	Go	2	..	37727i
37	4746	53.0	-55 56	8.6	9.2	F5	4	..	40107b	87	2563	53.4	+4 54	8.41	9.48	K2	5	..	19342b
38	3958	53.0	-59 2	7.6	7.7	B8	4	1,6	43211b	88	3379	53.4	-11 1	8.7	9.0	Fo	4	..	13419b
39	2062	53.0	-64 8	9.6	9.7	A5	2	..	38828b	89	3538	53.4	-13 13	9.1	9.1	Ao	2	..	13419b
40	1762	53.0	-65 10	10.3	10.3	Ao	1	..	38828b	90	3366	53.4	-16 24	9.6	10.7	K2	1	..	40314b
41	1297	53.0	-71 13	8.2	8.5	F2	5	..	39198b	91	3254	53.4	-23 5	9.6	10.1	Ko	1	..	13147b
42	1979	53.1	+45 17	8.3	8.8	F8	5	..	4906m	92	8885	53.4	-26 23	11.1	11.4	G5	2	..	40319b
43	2259	53.1	+42 23	9.7	10.5	G5	1	..	17453b	93	8427	53.4	-32 35	9.2	9.3	G5	4	..	22921b
44	2207	53.1	+30 23	8.9	9.5	Go	2	..	37531i	94	7275	53.4	-47 17	8.5	7.8	B9	7	..	19003b
45	2553	53.1	+4 3	6.89	8.24	Ma	7	..	19342b	95	6666	53.4	-49 41	8.3	8.9	Ko	4	..	19003b
46	2633	53.1	+1 26	7.42	8.42	Ko	8	..	19342b	96	5142	53.4	-57 25	9.2	9.2	B9	5	..	38957b
47	3404	53.1	-9 49	9.3	9.6	Fo	3	..	13419b	97	3970	53.4	-59 4	9.7	9.7	Ao	1	..	38957b
48	3390	53.1	-16 13	10.2	10.6	F5	1	..	40314b	98	3972	53.4	-59 17	8.3	8.3	Ao	2	..	38957b
49	10299	53.1	-23 22	9.1	9.2	K2	2	..	13147b	99	3540	53.4	-61 0	8.8	9.8	K5	1	..	38828b
50	8415	53.1	-28 5	10.4	11.4	Ko	2	..	40319b	100	451	53.5	+77 15	9.1	10.2	K2	1	..	38333i

ANNALS OF HARVARD COLLEGE OBSERVATORY.

104000

11^h 53^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2554	53.5	+ 4 32	9.7	10.0	F2	3	..	19342b	51	680	53.9	+70 5	9.0	9.5	F8	2	..	37554i
2	2635	53.5	+ 1 28	9.7	10.8	K2	1	..	19342b	52	1980	53.9	+45 23	10.2	11.2	Ko	2	..	4906m
3	3438	53.5	-14 33	7.41	7.75	F2	8	..	13419b	53	2416	53.9	+24 28	8.8	9.8	Ko	1	..	38311i
4	8429	53.5	-33 8	9.8	10.4	Go	1	..	39923b	54	2498	53.9	+ 2 11	10.0	10.1	A2	2	..	19342b
5	8092	53.5	-33 58	9.8	11.1	F2	2	..	39923b	55	2636	53.9	+ 1 5	6.48	7.48	Ko	10	..	19342b
6	6879	53.5	-41 21	9.5	9.7	G5	2	5,1	41405b	56	3216	53.9	- 4 13	9.1	9.9	G5	2	..	13807b
7	7339	53.5	-42 53	7.2	8.5	F5	7	..	13389b	57	3396	53.9	- 6 6	7.9	8.2	F2	7	..	13807b
8	4883	53.5	-54 13	9.0	9.8	G5	2	..	40107b	58	3257	53.9	-22 51	7.68	8.2	G5	7	..	13147b
9	4882	53.5	-54 24	8.8	9.8	Ko	2	..	40107b	59	7341	53.9	-43 5	9.6	9.7	F	2	..	13389b
10	5145	53.5	-57 26	8.8	9.8	Ko	1	R	38957b	60	7280	53.9	-47 30	10.0	9.8	F8	2	..	19003b
11	3974	53.5	-60 6	9.32	9.2	B	1	..	38957b	61	5152	53.9	-57 25	9.5	9.5	Ao	2	..	38957b
12	3541	53.5	-60 36	9.0	9.2	B9	2	..	38957b	62	2852	53.9	-61 36	9.0	8.1	B8	4	..	38828b
13	2070	53.5	-64 4	9.7	9.7	B9	4	..	38828b	63	705	53.9	-78 14	9.5	9.5	Ao	2	..	45481b
14	1754	53.5	-64 37	9.9	10.0	A2	1	..	38828b	64	240	53.9	-86 14	9.7	9.8	A3	3	..	22238b
15	1448	53.5	-70 11	7.02	7.0	B5	7	..	38923b	65	2555	54.0	+ 8 8	9.7	10.5	G5	2	..	11381b
16	1500	53.6	+55 3	8.2	9.2	Ko	2	..	38321i	66	3523	54.0	-18 7	10.5	11.3	G5	1	..	40314b
17	2294	53.6	+38 26	8.0	9.1	K2	4	..	17453i	67	3382	54.0	-19 47	8.1	8.3	K2	6	..	13147b
18	3326	53.6	- 7 27	8.7	9.5	G5	2	..	13807b	68	9205	54.0	-28 16	10.8	11.6	G	1	..	40319b
19	8430	53.6	-32 46	9.6	11.1	Ko	2	..	22921b	69	7282	54.0	-47 47	8.9	8.1	Ao	6	..	19003b
20	6673	53.6	-49 31	10.0	9.3	Ao	5	..	19003b	70	4888	54.0	-55 5	9.2	9.2	Ao	4	..	40107b
21	5081	53.6	-52 12	7.6	7.9	A2	4	1,8	10814b	71	5155	54.0	-57 53	8.2	8.9	Ko	4	..	38957b
22	5080	53.6	-52 53	8.2	8.9	F2	5	..	40107b	72	913	54.0	-73 27	7.7	8.7	Ko	6	..	39198b
23	2844	53.6	-61 15	9.3	9.3	B9	1	..	38828b	73	401	54.1	+78 35	9.5	10.7	K5	1	..	38333i
24	1755	53.6	-65 7	10.3	10.3	Ao	1	..	38828b	74	1981	54.1	+45 36	10.5	11.3	G5	1	..	4906m
25	2564	53.7	+ 5 23	8.5	8.9	F5	7	..	19342b	75	2176	54.1	+33 43	6.02	7.02	Ko	9	..	37727i
26	3439	53.7	-14 19	8.3	8.6	F2	7	..	13419b	76	2445	54.1	+25 12	8.2	8.8	Go	3	..	38311i
27	3368	53.7	-16 27	10.0	10.8	G5	1	..	40314b	77	3446	54.1	- 2 46	7.66	9.01	Ma	5	..	13418b
28	3367	53.7	-17 12	8.7	9.2	F8	6	..	40314b	78	3408	54.1	- 9 55	6.76	7.83	K2	8	..	13419b
29	8887	53.7	-26 53	9.9	10.2	Ko	2	..	40319b	79	9206	54.1	-28 56	11.1	11.0	Ao	3	..	40319b
30	9385	53.7	-31 27	10.8	11.1	Ao	2	..	39923b	80	7438	54.1	-45 16	6.61	7.0	Ao	6	1,5-	10814b
31	6880	53.7	-41 11	9.0	10.0	K5	1	..	41405b	81	6236	54.1	-51 8	6.18	8.0	K2	5	2,9	10814b
32	7278	53.7	-48 5	8.2	8.3	Ko	6	..	19003b	82	4889	54.1	-54 52	9.1	9.6	Go	3	..	40107b
33	3978	53.7	-59 5	8.8	8.3	B5	4	..	38957b	83	2480	54.1	-62 13	7.9	8.3	F5	4	..	38828b
34	3975	53.7	-59 55	9.1	9.5	A2	1	..	38957b	84	1759	54.1	-64 12	9.4	9.4	Ao	5	..	38828b
35	2073	53.7	-63 47	5.66	6.1	A2p	..	2,2 R	28,206	85	1757	54.1	-64 44	8.6	9.4	G5	4	..	38828b
36	766	53.7	-77 16	6.81	6.9	A2	7	0,8	45481b	86	681	54.2	+70 24	8.9	9.3	F5	3	..	37554i
37	3329	53.8	- 7 30	9.3	10.1	G5	1	..	13807b	87	1207	54.2	+61 53	7.52	7.60	A3	6	..	37718i
38	3267	53.8	- 8 45	8.7	9.9	K5	4	..	13807b	88	2080	54.2	+27 40	8.4	8.5	A5	2	..	38311i
39	8963	53.8	-25 21	6.39	7.4	Ao	..	..	56,130	89	2870	54.2	+ 0 33	8.9	9.2	F2	4	..	19342b
40	9582	53.8	-30 25	9.9	11.1	K5	2	..	40319b	90	8426	54.2	-28 4	9.9	10.2	Fo	3	..	40319b
41	7584	53.8	-35 51	10.0	9.7	G	2	R	22921b	91	9207	54.2	-29 2	9.9	11.6	K2	1	..	40319b
42	7405	53.8	-39 26	9.8	9.8	A2	2	..	13157b	92	8098	54.2	-33 53	10.2	10.7	F8	1	..	39923b
43	6881	53.8	-41 18	9.5	8.9	A2	4	2,3	41405b	93	6552	54.2	-50 34	10.5	10.1	F5	1	..	40423b
44	7340	53.8	-42 49	9.8	9.7	Ao	2	..	13389b	94	3549	54.2	-60 41	8.7	10.1	Ma	1	..	38957b
45	6546	53.8	-50 35	10.0	9.9	Ao	2	..	40423b	95	2084	54.2	-63 21	9.3	10.3	Ko	1	..	38828b
46	4761	53.8	-55 39	8.7	9.0	A2	5	..	40107b	96	1764	54.2	-65 26	9.5	10.5	Ko	1	..	38828b
47	2476	53.8	-62 25	8.8	8.7	B5	4	..	38828b	97	768	54.2	-77 25	9.1	9.2	A2	2	..	45481b
48	2078	53.8	-63 56	9.1	9.1	Ao	4	..	38828b	98	1501	54.3	+55 7	8.8	9.2	F5	2	..	38321i
49	2077	53.8	-64 2	9.3	9.4	A2	4	..	38828b	99	2500	54.3	+ 7 27	8.7	9.7	Ko	3	..	11381b
50	770	53.8	-75 50	9.9	9.9	Ao	2	..	39198b	100	2583	54.3	+ 3 26	9.3	10.3	Ko	2	..	19342b

THE HENRY DRAPER CATALOGUE.

104100

11^h 54^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2499	54.3	+ 2 23	7.03	8.03	Ko	9	..	19342b	51	3290	54.6	-18 20	9.8	10.8	Ko	1	..	40314b
2	3396	54.3	-15 29	8.3	9.4	K2	5	..	40314b	52	8439	54.6	-33 5	9.8	11.1	Go	1	..	39923b
3	9468	54.3	-29 30	6.97	8.4	K5	7	..	40319b	53	7595	54.6	-35 55	10.2	10.3	Ko	1	..	39923b
4	9387	54.3	-31 51	9.9	10.2	F5	4	..	22921b	54	7435	54.6	-38 57	8.2	10.0	K2	3	..	13157b
5	7824	54.3	-34 35	9.3	10.0	Ko	1	..	22921b	55	7349	54.6	-42 33	9.0	10.1	K2	1	..	15605b
6	7408	54.3	-39 59	8.68	9.4	Ko	3	..	13157b	56	7292	54.6	-47 41	8.3	9.2	K5	3	..	19003b
7	6888	54.3	-41 46	10.0	10.8	Ko	1	R	15605b	57	4893	54.6	-54 35	9.5	9.5	B9	3	..	40107b
8		54.3	-41 46	10.0	10.9					58	5164	54.6	-57 47	8.6	9.2	Ao	4	..	38957b
9	7346	54.3	-42 36	9.6	10.1	G5	1	..	15605b	59	3994	54.6	-58 38	9.5	9.5	Ao	1	..	38957b
10	2859	54.3	-61 17	8.8	9.2	K5	2	..	38828b	60	3995	54.6	-59 5	9.2	9.2	Ao	1	..	38957b
11	2485	54.3	-62 16	6.60	6.7	A5	2	..	8269b	61	1686	54.6	-66 17	10.2	10.2	Ao	1	..	38924b
12	554	54.4	+72 8	8.2	8.6	F5	4	E	37554i	62	594	54.7	+70 54	9.0	9.3	F2	3	3,4	38683i
13	2552	54.4	+18 43	8.3	8.9	G	1	..	38660i	63	1367	54.7	+60 43	8.3	9.1	G5	3	..	37718i
14	2874	54.4	+ 0 42	9.5	10.3	G5	3	..	19342b	64	1414	54.7	+59 38	8.81	9.15	F2	3	..	37718i
15	3383	54.4	-11 3	9.3	10.5	K5	1	..	13419b	65	3291	54.7	-19 13	10.5	10.9	G5	1	..	40314b
16	9209	54.4	-28 23	9.4	10.5	Ko	3	..	40319b	66	9213	54.7	-28 56	10.6	9.9	K5	4	..	40319b
17	9208	54.4	-28 34	10.8	11.1	G5	1	..	40319b	67	9476	54.7	-30 2	9.29	9.9	Go	3	..	40319b
18	9210	54.4	-28 39	9.1	9.6	F5	4	..	40319b	68	7830	54.7	-35 1	9.58	10.0	F8	2	..	22921b
19	9471	54.4	-29 47	10.4	10.5	F5	3	..	40319b	69	7436	54.7	-38 38	8.3	9.1	F8	5	..	13157b
20	8436	54.4	-32 40	9.5	9.9	Fo	3	..	22921b	70	3997	54.7	-58 51	9.0	9.0	Ao	1	..	38957b
21	7290	54.4	-48 1	9.8	9.6	A2	3	..	19003b	71	3557	54.7	-60 14	8.07	8.0	B9	7	0,3	38957b
22	7018	54.4	-48 35	7.3	7.9	Ao	4	2,8	10814b	72	2498	54.7	-62 16	8.0	9.2	K5	2	..	38828b
23	6689	54.4	-49 56	8.6	9.3	K5	3	..	19003b	73	1879	54.7	-67 46	7.5	7.5	B9	5	..	38924b
24	4927	54.4	-56 32	9.8	9.8	A	1	..	38957b	74	772	54.7	-77 40	5.05	5.03	B9	..	R	28,206
25	4926	54.4	-56 36	6.90	7.4	A2	..	0,5-	56,130	75	436	54.8	+75 56	10.5	11.5	Ko	1	..	4907m
26	370	54.5	+80 9	7.70	8.20	F8	5	..	37465i	76	465	54.8	+74 47	9.32	9.82	F8	3	..	4907m
27	..	54.5	+73 20	..	..	F5	2	..	4907m	77	992	54.8	+63 45	9.1	9.2	A5	4	..	37718i
28	2488	54.5	+40 32	8.8	9.9	K2	3	..	17453i	78	2145	54.8	+43 54	8.2	9.2	Ko	6	0,3	4906m
29	2571	54.5	+ 9 11	9.00	9.28	Fo	4	..	11381b	79	2279	54.8	+34 36	6.27	6.55	Fo	9	..	37727i
30	2600	54.5	- 1 21	7.12	8.12	Ko	7	..	13418b	80	2417	54.8	+24 31	8.9	9.5	Go	1	..	38311i
31	3271	54.5	- 8 21	9.2	10.4	K5	2	..	41227b	81	2556	54.8	+ 4 13	5.24	5.24	Ao	..	0, R	56,88
32	3550	54.5	-20 18	10.5	10.9	Go	1	..	40314b	82	2501	54.8	+ 1 47	9.0	9.6	Go	4	..	19342b
33	8966	54.5	-26 4	10.6	11.6	Ko	2	..	40319b	83	2637	54.8	+ 1 28	9.7	10.9	K5	1	..	19342b
34	9473	54.5	-30 3	11.3	11.1	Go	2	..	40319b	84	3492	54.8	- 7 5	8.5	8.6	A5	5	..	13807b
35	8438	54.5	-32 23	9.8	11.1	Ko	1	..	39923b	85	8103	54.8	-33 18	9.8	9.9	Fo	3	..	22921b
36	7826	54.5	-34 45	7.27	8.2	Ko	8	..	22921b	86	7600	54.8	-35 36	9.5	9.7	A	2	..	22921b
37	7591	54.5	-35 22	10.6	10.3	Ko	1	..	39923b	87	6893	54.8	-41 12	8.9	9.2	Fo	3	0,2	41405b
38	7444	54.5	-46 4	6.74	7.2	F8	4	0,9-	10814b	88	7293	54.8	-47 45	8.4	8.9	K2	4	..	19003b
39	7019	54.5	-48 48	8.4	9.5	K2	3	..	19003b	89	7023	54.8	-48 14	9.4	10.1	G5	1	..	19003b
40	6693	54.5	-49 15	9.6	9.2	A3	3	..	19003b	90	2866	54.8	-61 26	9.2	9.2	Ao	2	..	38828b
41	6554	54.5	-51 6	8.8	8.9	A2	4	R	40107b	91	1617	54.8	-69 19	8.5	8.5	Ao	4	..	38923b
42	4769	54.5	-56 6	9.1	8.9	A2	4	..	40107b	92	2481	54.9	+39 24	9.3	10.3	Ko	1	..	17453b
43	2492	54.5	-62 50	9.4	9.4	B8	3	..	38828b	93	8899	54.9	-26 57	10.4	10.0	Go	3	..	40319b
44	2085	54.5	-64 6	9.8	9.8	Ao	2	..	38828b	94	8105	54.9	-34 6	9.6	11.1	G5	1	..	39923b
45	1764	54.5	-64 50	9.1	9.4	F2	4	..	38828b	95	7583	54.9	-36 51	9.5	10.0	Go	2	..	13157b
46	488	54.5	-82 35	9.0	10.0	Ko	2	0,1	45456b	96	6896	54.9	-41 32	9.0	9.7	F8	1	..	13389b
47	101	54.6	+87 33	7.76	7.82	A2	8	..	37793i	97	7024	54.9	-48 11	9.0	9.5	G5	5	..	19003b
48	1482	54.6	+53 57	8.6	9.1	F8	2	..	38321i	98	4896	54.9	-54 31	8.9	9.8	Ko	1	..	40107b
49	1982	54.6	+44 54	10.0	10.8	G5	1	..	4906m	99	4897	54.9	-55 1	9.00	8.6	Ao	6	..	40107b
50	3217	54.6	- 3 23	8.5	9.7	K5	3	..	13418b	100	4772	54.9	-55 44	7.9	7.6	Bo	3	3,8	43211b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

104200

11^h 54^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4771	54.9	-55 55	8.6	8.7	Ao	5	..	40107b	51	5123	55.2	-52 42	8.8	9.3	Ko	3	..	40107b
2	596	55.0	+71 13	7.87	7.87	A	4	R	38683i	52	4902	55.2	-54 24	9.1	9.5	F5	3	..	40107b
3	2263	55.0	+40 51	9.1	10.1	Ko	1	..	17453i	53	4775	55.2	-55 41	9.8	9.8	Ao	3	..	40107b
4	2238	55.0	+37 17	8.0	8.0	Ao	7	..	37727i	54	4940	55.2	-57 8	10.0	10.0	Ao	1	..	38957b
5	2178	55.0	+32 47	8.4	8.8	F5	3	..	37727i	55	3572	55.2	-60 48	8.3	8.3	B9	6	..	38957b
6	2282	55.0	+26 36	9.0	9.8	G5	1	..	37531i	56	2509	55.2	-62 43	9.5	9.5	A	2	..	38828b
7	2664	55.0	+19 59	7.06	8.41	Mb	3	0.5	38660i	57	1767	55.2	-65 31	9.2	9.1	B5	4	..	38828b
8	2557	55.0	+18 29	8.7	9.7	K	1	..	38660i	58	1766	55.2	-65 41	10.0	10.0	Ao	2	..	38828b
9	3527	55.0	-17 27	9.2	10.4	K5	1	..	40314b	59	1881	55.3	+50 9	8.6	9.2	Go	2	..	38429i
10	8435	55.0	-28 1	10.8	11.8	Ko	1	..	40319b	60	2489	55.3	+39 59	9.3	10.1	G5	2	..	17453i
11	7451	55.0	-45 29	10.2	10.1	F5	1	..	19003b	61	2501	55.3	+7 4	8.7	9.7	Ko	2	..	11381b
12	7569	55.0	-46 13	8.3	8.3	G5	4	..	19003b	62	2875	55.3	-0 8	9.03	9.81	G5	4	0.4	19158b
13	6699	55.0	-49 48	8.5	9.0	Ko	6	..	19003b	63	3218	55.3	-3 59	8.8	9.6	G5	4	..	13807b
14	5169	55.0	-58 2	..	10.8	Na	1	..	37591b	64	3443	55.3	-14 40	9.3	10.4	K2	2	..	40416b
15	2869	55.0	-62 0	7.3	9.2	K2	4	..	38828b	65	10318	55.3	-23 17	9.6	10.7	Ko	2	0.1	40286b
16	389	55.1	+81 25	6.44	7.79	Ma	7	..	37465i	66	8977	55.3	-25 48	9.7	9.0	Fo	5	..	40319b
17	2422	55.1	+17 10	8.5	9.1	Go	3	..	38660i	67	9487	55.3	-29 47	8.3	8.3	A5	7	..	22921b
18	2568	55.1	+5 12	8.9	10.0	K2	2	..	19342b	68	9486	55.3	-30 2	8.14	8.7	G5	5	R	22921b
19	3331	55.1	-7 16	9.2	10.2	Ko	2	..	13807b	69	7839	55.3	-34 12	9.5	9.5	F5	3	..	22921b
20	3442	55.1	-14 52	9.3	10.3	Ko	2	..	40416b	70	7607	55.3	-36 0	7.19	8.1	A3	7	..	13157b
21	3399	55.1	-16 1	7.9	8.2	F2	7	..	40314b	71	7571	55.3	-47 6	7.4	7.7	Ko	6	..	19003b
22	3385	55.1	-20 11	10.0	10.7	G5	1	..	40314b	72	5124	55.3	-52 45	9.3	10.7	Ma	1	..	40107b
23	10087	55.1	-24 42	9.7	10.0	Go	2	E	40286b	73	4889	55.3	-53 22	8.0	8.6	Fo	5	..	40107b
24	8903	55.1	-26 32	9.1	9.3	Go	6	..	40319b	74	4904	55.3	-54 33	9.1	10.7	Nb	2	..	40107b
25	8108	55.1	-33 33	9.8	11.1	F2	2	..	39923b	75	1883	55.3	-67 40	9.7	9.7	Ao	2	..	38924b
26	7695	55.1	-44 18	7.5	8.4	F8	5	..	13389b	76	1882	55.3	-67 47	9.0	9.0	Ao	3	..	38924b
27	7696	55.1	-44 44	10.0	10.1	Ao	1	..	19003b	77	1299	55.3	-71 29	9.2	10.4	K5	1	..	39198b
28	7026	55.1	-48 13	9.2	9.8	G5	2	..	19003b	78	2146	55.4	+44 11	8.9	9.4	F8	4	..	4906m
29	6566	55.1	-50 12	9.2	9.6	K2	2	3.1	40423b	79	2558	55.4	+4 39	8.40	9.75	Ma	3	..	19342b
30	4900	55.1	-54 42	8.7	8.9	F8	5	..	40107b	80	3444	55.4	-14 43	9.3	9.8	F8	2	..	13419b
31	4938	55.1	-56 33	9.0	9.0	F8	5	..	38957b	81	3442	55.4	-21 19	8.7	8.4	A2	6	..	13147b
32	4941	55.1	-56 54	8.9	9.3	A3	3	..	38957b	82	10320	55.4	-23 54	9.1	7.5	A2	7	..	13147b
33	2090	55.1	-63 15	8.9	8.9	Ao	4	..	38828b	83	4891	55.4	-53 16	8.4	8.9	A2	5	..	40107b
34	1687	55.1	-66 30	9.7	9.7	B9	2	..	38924b	84	3577	55.4	-60 50	9.1	9.2	Ao	1	..	38957b
35	1881	55.1	-67 13	9.2	9.5	Fo	2	..	38924b	85	2512	55.4	-62 40	9.2	9.2	B8	2	..	38828b
36	1450	55.1	-70 28	8.3	9.4	K2	1	..	38923b	86	1618	55.4	-69 36	8.7	8.8	A2	2	..	38923b
37	774	55.1	-77 38	6.6	6.6	Ao	8	..	13467b	87	1619	55.4	-69 46	9.0	9.1	A2	1	..	38923b
38	402	55.2	+78 27	9.8	10.2	F5	2	..	37465i	88	636	55.5	+69 45	7.32	7.60	Fo	5	..	37554i
39	1349	55.2	+58 2	8.6	9.4	G5	3	..	37718i	89	1368	55.5	+59 55	7.96	8.46	F8	6	..	37718i
40	1766	55.2	+46 21	10.2	10.7	F8	1	..	4906m	90	2521	55.5	+18 53	7.71	8.71	Ko	2	..	38402i
41	1983	55.2	+45 11	7.47	7.47	Ao	7	0.9	38429i	91	2586	55.5	+2 59	9.7	10.8	K2	1	..	19342b
42	2174	55.2	+43 9	10.2	11.2	Ko	2	..	4906m	92	2502	55.5	+1 52	10.0	10.6	Go	2	..	19342b
43	2536	55.2	+5 54	8.5	9.3	G5	2	..	11381b	93	3181	55.5	-4 34	8.9	9.2	Fo	3	..	13807b
44	3400	55.2	-16 7	8.3	9.4	K2	5	..	40314b	94	R	55.5	-19 42	9.9	10.7	G5	1	..	40314b
45	3372	55.2	-16 56	10.5	11.5	Ko	1	..	40314b	95	4779	55.5	-55 44	9.0	9.5	F8	3	..	40107b
46	9484	55.2	-29 10	9.6	11.0	K5	3	..	40319b	96	4780	55.5	-55 49	8.1	9.0	K2	4	..	40107b
47	8109	55.2	-34 1	9.5	10.5	Ko	1	..	39923b	97	4943	55.5	-56 21	9.5	9.5	Ao	3	..	38957b
48	7606	55.2	-35 44	8.1	8.5	K2	5	..	13157b	98	3995	55.5	-59 24	8.4	9.0	G5	3	..	38957b
49	7586	55.2	-36 11	8.3	8.8	Ao	5	..	13157b	99	1767	55.5	-64 52	10.3	10.3	Ao	2	..	38828b
50	5122	55.2	-52 18	8.0	8.3	Ko	4	..	40107b	100	702	55.5	-76 25	8.9	10.0	K2	2	..	39198b

THE HENRY DRAPER CATALOGUE.

104300

11^h 55^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1767	55.6	+46 37	9.1	9.4	Fo	6	..	4906m	51	2559	55.9	+ 8 28	8.7	9.8	K ₂	3	..	11381b
2	1984	55.6	+45 32	10.0	11.0	Ko	1	..	4906m	52	2503	55.9	+ 7 29	8.5	9.6	K ₂	4	..	11381b
3	3449	55.6	- 2 23	9.1	9.6	F8	4	..	13418b	53	2505	55.9	+ 2 27	8.9	9.5	Go	5	..	19342b
4	3413	55.6	- 9 52	5.63	6.41	G ₅	7	..	11224b	54	2504	55.9	+ 1 47	10.3	11.3	Ko	1	..	19342b
5	3446	55.6	-14 36	9.8	10.8	Ko	2	..	40416b	55	2521	55.9	- 1 2	8.9	9.7	G ₅	3	..	13418b
6	3402	55.6	-15 18	8.71	9.13	F ₅	2	..	13419b	56	2520	55.9	- 1 12	6.45	7.45	Ko	9	..	13418b
7	3443	55.6	-21 16	6.42	7.3	Ko	9	..	13147b	57	3529	55.9	-17 58	8.5	8.8	Fo	6	..	40314b
8	7447	55.6	-38 29	9.2	9.8	Fo	3	..	13157b	58	8989	55.9	-25 55	8.3	9.0	Ko	8	..	40319b
9	7363	55.6	-42 59	9.6	10.3	G ₅	1	..	15605b	59	9233	55.9	-29 8	9.7	9.9	Ko	2	..	40319b
10	4892	55.6	-53 29	8.5	9.3	Ko	3	..	40107b	60	9408	55.9	-31 28	9.3	9.0	Ko	5	..	22921b
11	4783	55.6	-55 17	8.4	9.3	K ₂	4	..	40107b	61	4785	55.9	-55 32	8.9	10.1	K ₅	2	..	40107b
12	4781	55.6	-55 32	8.9	10.0	K ₂	2	..	40107b	62	4013	55.9	-59 2	9.1	8.7	B ₉	3	..	38957b
13	4944	55.6	-57 3	8.3	9.6	Ma	2	..	38957b	63	2880	55.9	-61 10	9.2	9.2	B ₉	3	..	38828b
14	2875	55.6	-61 27	9.2	9.2	Ao	1	..	38828b	64	1597	55.9	-68 38	8.7	8.7	Ao	2	..	38924b
15	1300	55.6	-71 27	9.3	10.4	K ₂	1	..	39198b	65	993	56.0	+63 34	9.1	9.9	G ₅	3	..	37718i
16	598	55.7	+70 47	6.69	6.69	Ao	8	..	37554i	66	2321	56.0	+31 32	9.2	9.2	Ao	2	..	37727i
17	2148	55.7	+44 5	10.2	11.0	G ₅	1	..	4906m	67	2560	56.0	+ 4 11	7.9	8.3	F ₅	8	..	19342b
18	2181	55.7	+33 31	8.2	8.5	F ₂	5	..	37727i	68	3450	56.0	- 3 1	8.9	9.7	G ₅	3	..	13418b
19	2245	55.7	+29 45	8.46	8.96	F8	3	..	37531i	69	3262	56.0	-22 47	9.3	10.1	Ko	3	5,1	40286b
20	2480	55.7	+13 5	9.5	10.5	Ko	2	..	37567b	70	7455	56.0	-38 29	8.7	9.7	F8	3	..	13157b
21	2502	55.7	+ 7 10	4.57	4.65	A ₃	..	R	56.88	71	7468	56.0	-45 45	8.9	9.2	Ko	3	..	19003b
22	3493	55.7	- 6 30	9.1	9.7	Go	2	..	41227b	72	7042	56.0	-49 7	9.8	9.6	A ₂	4	..	19003b
23	3414	55.7	- 9 24	8.7	8.7	Ao	4	..	13419b	73	4909	56.0	-54 41	8.8	9.6	G ₅	2	..	40107b
24	3220	55.7	-11 36	8.1	8.7	Go	7	..	13419b	74	4788	56.0	-55 14	9.5	9.6	A ₃	2	..	40107b
25	8908	55.7	-26 49	9.4	9.6	K ₂	4	..	40319b	75	2521	56.0	-62 39	9.2	9.2	Ao	1	..	38828b
26	9490	55.7	-29 8	11.1	11.1	Ko	1	..	40319b	76	2097	56.0	-63 9	9.5	9.5	B ₉	2	..	38828b
27	7590	55.7	-36 55	8.2	8.6	F8	6	..	13157b	77	1520	56.1	+53 22	9.0	9.8	G ₅	1	..	38321i
28	7419	55.7	-39 48	9.0	9.4	A ₂	3	..	13157b	78	2176	56.1	+43 28	9.7	10.5	G ₅	2	..	4906m
29	7034	55.7	-49 0	8.0	9.2	Ko	7	..	19003b	79	2322	56.1	+31 12	7.78	8.28	F8	4	..	37727i
30	5177	55.7	-57 25	9.2	9.2	Ao	2	..	38957b	80	2324	56.1	+15 45	9.7	10.7	Ko	3	..	37567b
31	3587	55.7	-60 53	9.0	9.5	A ₂	2	..	38957b	81	2482	56.1	+12 56	6.93	6.93	Ao	7	..	37680i
32	2096	55.7	-63 17	8.5	8.5	B ₈	5	..	38828b	82	3416	56.1	- 9 19	8.9	8.9	Ao	5	..	13419b
33	773	55.7	-76 6	9.1	9.9	G ₅	1	..	39198b	83	3296	56.1	-18 45	10.0	10.6	Go	1	..	40314b
34	2149	55.8	+44 20	8.6	9.0	F ₅	4	..	4906m	84	9410	56.1	-31 49	10.1	11.0	Go	1	..	22921b
35	2175	55.8	+42 47	8.8	9.6	G ₅	2	..	17453i	85	7422	56.1	-39 59	9.64	10.0	G ₅	2	..	13157b
36	3220	55.8	- 3 56	9.3	10.3	Ko	1	..	13418b	86	4913	56.1	-54 49	9.2	10.0	G ₅	2	..	40107b
37	3295	55.8	-19 6	5.28	5.11	B ₃	..	..	56.88	87	2884	56.1	-62 3	9.3	9.3	B ₉	2	..	38828b
38	3391	55.8	-19 27	9.8	10.4	Fo	2	..	40314b	88	2098	56.1	-63 41	8.9	8.9	B ₉	4	..	38828b
39	3390	55.8	-20 5	8.5	8.3	Ao	7	..	13147b	89	381	56.2	+79 38	8.8	9.4	Go	4	..	37465i
40	3555	55.8	-20 41	8.1	9.2	K ₂	3	..	13147b	90	742	56.2	+66 41	7.27	8.34	K ₂	4	..	37718i
41	8911	55.8	-26 33	10.1	9.7	A ₃	4	..	40319b	91	2151	56.2	+44 8	9.5	10.5	Ko	2	..	4906m
42	7304	55.8	-47 50	8.5	8.0	F8	7	..	19003b	92	2448	56.2	+24 47	8.31	9.31	Ko	3	..	38311i
43	4893	55.8	-53 32	9.8	9.8	Ao	2	..	40107b	93	3532	56.2	-17 49	9.6	10.6	Ko	1	..	40314b
44	4906	55.8	-54 10	8.5	9.5	Ko	3	..	40107b	94	3559	56.2	-20 18	10.2	10.1	A ₂	3	..	40314b
45	4907	55.8	-55 6	8.86	9.2	Ko	4	..	40107b	95	3264	56.2	-22 33	9.2	9.5	F ₅	2	..	13147b
46	5179	55.8	-57 30	7.9	7.8	B ₉	7	1,2	38957b	96	10325	56.2	-23 22	10.1	10.7	K ₂	1	..	40286b
47	2517	55.8	-63 2	9.8	9.8	Ao	2	..	38828b	97	9236	56.2	-28 43	10.6	11.1	F8	2	..	40319b
48	1688	55.8	-66 20	9.2	10.3	K ₂	1	..	38924b	98	7371	56.2	-42 52	9.4	10.1	F ₅	2	..	15605b
49	2069	55.9	+28 32	8.6	9.6	Ko	2	..	37531i	99	6267	56.2	-51 44	10.0	9.8	A ₂	2	..	40107b
50	2481	55.9	+13 33	8.6	8.6	Ao	7	..	37567b	100	4916	56.2	-54 46	10.0	10.0	A	2	..	40107b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

104400

11^h 56^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4789	56.2	-55 54	9.1	9.6	F8	2	..	40107b	51	2212	56.6	+30 6	8.36	8.70	F2	3	E	37727i
2	5185	56.2	-57 10	9.2	9.3	A2	2	..	38957b	52	2430	56.6	+22 39	6.58	7.08	F8	7	..	38311i
3	3599	56.2	-60 51	8.8	9.2	B3	2	..	38828b	53	2467	56.6	+13 57	8.9	9.7	G5	5	..	37567b
4	..	56.3	+76 48	..	..	Ko	1	..	4907m	54	3334	56.6	-7 49	9.3	9.8	F8	2	..	13807b
5	1768	56.3	+46 24	9.7	10.5	G5	3	..	4906m	55	3484	56.6	-13 55	9.6	10.6	Ko	3	..	40416b
6	2286	56.3	+26 16	8.7	9.7	Ko	1	..	37531i	56	3536	56.6	-18 14	8.7	9.2	F8	5	..	40314b
7	2505	56.3	+7 3	8.4	9.5	K2	4	..	11381b	57	3299	56.6	-18 47	9.1	10.1	Ko	4	..	40314b
8	2877	56.3	+0 11	8.5	8.5	A	5	R	13418b	58	3448	56.6	-22 2	9.1	10.4	K2	2	..	40286b
9	2878	56.3	+0 10	8.5	9.5	K	..	..	..	59	10099	56.6	-24 31	9.7	9.9	A3	2	..	13147b
10	3224	56.3	-3 38	9.1	10.3	K5	3	..	13418b	60	9419	56.6	-32 4	9.1	10.5	Ko	2	..	22921b
11	3332	56.3	-7 36	8.1	9.1	Ko	4	..	13807b	61	7851	56.6	-35 1	9.23	9.8	K5	2	..	22921b
12	3373	56.3	-16 58	9.1	9.4	F2	5	..	40314b	62	7589	56.6	-46 28	10.5	10.7	A	1	..	40423b
13	3297	56.3	-19 7	9.8	10.4	Go	2	..	40314b	63	6276	56.6	-51 15	8.0	8.9	Ao	6	..	40107b
14	3392	56.3	-20 6	7.48	8.3	Ko	7	..	13147b	64	6277	56.6	-51 39	9.6	9.3	Ao	3	..	40107b
15	3560	56.3	-20 58	8.3	8.6	F8	6	..	13147b	65	2526	56.6	-63 0	9.1	9.1	B8	4	..	38828b
16	8444	56.3	-27 39	11.3	11.8	A	1	..	40319b	66	1770	56.6	-64 10	8.9	9.7	G5	2	..	38828b
17	8124	56.3	-33 29	7.09	8.4	Ko	8	..	22921b	67	711	56.6	-78 26	8.4	9.2	G5	4	..	13467b
18	4917	56.3	-54 42	8.9	8.9	B9	5	..	40107b	68	2640	56.7	+1 6	9.0	10.2	K5	4	..	19342b
19	4790	56.3	-56 1	9.2	9.3	A2	3	..	40107b	69	9420	56.7	-31 39	9.1	9.9	Ko	3	..	22921b
20	4020	56.3	-58 21	8.7	8.9	A2	3	..	38957b	70	9422	56.7	-31 40	9.3	8.5	Fo	6	..	22921b
21	4007	56.3	-59 44	9.2	9.2	A	1	..	38957b	71	8130	56.7	-34 5	6.90	7.6	Go	9	..	22921b
22	2100	56.3	-63 31	9.2	9.1	B5	4	..	38828b	72	6916	56.7	-41 16	7.3	8.2	A2	..	0.8	56,130
23	1453	56.3	-70 40	8.4	8.4	Ao	4	..	38923b	73	7314	56.7	-47 39	8.6	8.3	Ko	5	..	19003b
24	1985	56.4	+45 11	8.2	8.3	A3	2	0.7	38429i	74	6281	56.7	-51 47	10.2	10.1	A3	1	..	40107b
25	2177	56.4	+43 37	9.5	9.9	F5	5	3.3	4906m	75	4898	56.7	-53 24	8.8	9.3	A5	3	..	40107b
26	2588	56.4	+2 55	8.7	9.3	Go	7	..	19342b	76	2897	56.7	-61 23	9.8	9.8	Ao	1	..	38828b
27	9612	56.4	-30 49	10.4	11.1	Ao	2	..	40319b	77	2898	56.7	-61 58	8.3	9.2	Ko	2	..	38828b
28	9610	56.4	-30 58	10.4	11.5	K2	1	..	40319b	78	1771	56.7	-65 42	9.2	9.5	Fo	2	..	38828b
29	5147	56.4	-52 39	10.7	10.1	Go	1	..	40107b	79	1600	56.7	-68 38	7.4	8.4	Ko	5	..	38924b
30	4954	56.4	-56 56	6.41	6.7	B9	..	1.6	56,130	80	1622	56.7	-69 51	8.1	8.1	Ao	4	..	38923b
31	5189	56.4	-57 39	8.4	9.6	Ko	1	..	38957b	81	1194	56.7	-72 44	6.92	6.7	Ao	10	..	39198b
32	2888	56.4	-62 3	8.4	8.4	Ao	6	..	38828b	82	1350	56.8	+58 31	8.9	9.3	F5	2	..	37718i
33	543	56.4	-82 0	9.4	10.2	G5	2	0.1	45456b	83	2483	56.8	+13 16	10.0	10.5	F8	3	..	37567i
34	480	56.5	+73 58	10.5	11.0	F8	1	..	4907m	84	2880	56.8	+0 39	7.84	7.90	A2	6	..	9465b
35	599	56.5	+71 25	7.36	8.36	Ko	5	..	38683i	85	2610	56.8	-1 41	9.3	10.1	G5	3	..	13418b
36	863	56.5	+65 30	7.25	7.33	A3	8	..	37718i	86	3403	56.8	-5 43	8.3	9.3	Ko	1	..	13807b
37	2490	56.5	+40 8	8.6	9.4	G5	3	..	17453i	87	8994	56.8	-25 55	9.9	9.6	F8	4	..	40319b
38	2230	56.5	+36 36	5.62	6.62	Ko	10	..	37727i	88	8923	56.8	-26 39	10.6	11.6	Ko	1	..	40319b
39	2421	56.5	+11 38	8.6	9.6	Ko	3	..	37567i	89	8452	56.8	-27 38	10.1	11.4	Ko	1	..	40319b
40	3298	56.5	-18 51	9.8	10.8	Ko	2	..	40314b	90	9245	56.8	-29 7	11.1	11.1	Ko	1	..	40319b
41	3446	56.5	-21 53	9.1	10.1	Go	4	..	40286b	91	9617	56.8	-30 16	11.3	11.1	Go	2	..	40319b
42	8127	56.5	-33 34	9.5	11.1	Ko	2	..	22921b	92	6284	56.8	-51 35	10.0	9.2	A2	2	..	40107b
43	7477	56.5	-45 26	9.8	9.5	A5	2	..	19003b	93	4921	56.8	-55 6	8.9	9.5	Go	3	..	40107b
44	6718	56.5	-49 24	9.8	9.5	G5	3	..	19003b	94	1772	56.8	-65 54	10.3	10.3	Ao	1	..	38828b
45	4897	56.5	-53 16	8.2	8.7	A5	5	..	40107b	95	2185	56.9	+32 53	8.9	9.7	G5	2	..	37727i
46	5190	56.5	-57 55	8.2	9.2	Ao	4	..	38957b	96	3300	56.9	-18 29	10.0	11.1	K2	1	..	40314b
47	4008	56.5	-59 47	9.1	9.2	B9	2	..	38957b	97	3395	56.9	-20 15	7.63	7.9	Ao	9	..	13147b
48	2101	56.5	-63 52	10.3	10.3	Ao	1	..	38828b	98	8925	56.9	-26 12	8.3	9.0	Ko	6	..	40319b
49	437	56.6	+75 46	8.89	9.17	Fo	5	R	4907m	99	9500	56.9	-29 55	10.6	10.2	Go	3	..	40319b
50	2323	56.6	+31 27	9.0	9.6	G	1	..	37727i	100	6725	56.9	-49 36	9.2	9.2	A2	6	..	19003b

THE HENRY DRAPER CATALOGUE.

104500

11^h 56^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4015	56.9	-59 25	8.9	8.6	B9	3	..	38957b	51	4019	57.3	-59 25	8.3	8.3	G5	2	..	38957b
2	2901	56.9	-61 48	9.1	9.2	A0	2	..	38828b	52	3621	57.3	-60 53	9.2	9.0	B0	2	..	38828b
3	1195	56.9	-72 56	8.8	9.9	K2	3	..	39198b	53	2906	57.3	-61 51	7.0	7.1	B5	7	..	38828b
4	2212	57.0	+31 47	8.8	9.3	F8	3	..	37727i	54	1602	57.3	-68 15	8.5	8.5	A0	3	..	38924b
5	2326	57.0	+15 55	9.7	10.0	F2	3	..	37567b	55	371	57.3	-85 4	5.89	8.8	K2	8	2,9	13459b
6	9501	57.0	-29 53	11.6	11.0	G5	2	..	40319b	56	2182	57.4	+43 40	6.83	7.83	K0	5	0,4 R	17453i
7	8463	57.0	-33 2	9.5	10.2	F5	2	..	22921b	57	2 65	57.4	+41 51	8.0	8.4	F5	4	..	17453i
8	7427	57.0	-43 51	9.1	8.9	A0	3	..	13389b	58	2434	57.4	+22 18	9.0	9.4	F5	3	..	38311i
9	6286	57.0	-51 16	8.6	8.9	A2	4	..	40107b	59	2883	57.4	+ 0 35	8.39	9.39	K0	3	..	9465b
10	4901	57.0	-53 25	9.7	9.8	A2	1	..	40107b	60	3226	57.4	-11 25	8.5	9.0	F8	4	..	13419b
11	4962	57.0	-56 20	9.6	10.0	F5	2	..	40107b	61	10340	57.4	-23 30	9.1	9.0	G5	3	..	13147b
12	1771	57.0	-64 49	10.3	10.3	A0	1	..	38828b	62	9509	57.4	-29 48	10.1	11.1	K0	2	..	40319b
13	2179	57.1	+43 36	5.07	5.15	A3	..	0, R	56,88	63	4904	57.4	-53 53	9.2	9.6	F5	2	..	40107b
14	3550	57.1	-12 52	9.2	10.0	G5	2	..	40416b	64	4810	57.4	-56 0	7.6	7.4	A0	4	0,8	43211b
15	3267	57.1	-23 13	9.6	10.7	K2	2	2, I	40286b	65	5199	57.4	-57 41	9.1	9.3	B	1	..	38957b
16	8928	57.1	-27 6	9.1	9.6	G0	6	..	40319b	66	2907	57.4	-61 23	9.4	9.2	B3	1	..	38828b
17	9504	57.1	-30 3	8.24	9.3	K5	5	..	40319b	67	2537	57.4	-62 30	8.1	8.0	B5	3	..	38828b
18	7633	57.1	-36 8	9.5	9.5	A2	2	..	13157b	68	1603	57.4	-68 50	7.5	7.5	A0	4	..	38924b
19	7428	57.1	-39 16	9.3	10.0	A2	3	..	13157b	69	1455	57.4	-70 18	8.11	9.6	Mb	2	..	38923b
20	7596	57.1	-46 40	9.8	10.1	K2	1	..	40423b	70	1454	57.4	-70 56	6.36	7.5	K0	7	..	38923b
21	4925	57.1	-54 34	9.8	9.8	A0	2	..	40107b	71	922	57.4	-74 5	9.4	9.4	A0	3	..	39198b
22	2105	57.1	-63 11	9.4	9.4	A0	2	..	38828b	72	2152	57.5	+43 52	9.2	10.2	K0	2	..	4906m
23	1772	57.1	-64 14	8.2	8.2	B8	5	..	38828b	73	2232	57.5	+36 17	8.6	8.7	A5	5	..	37727i
24	1887	57.1	-67 34	10.0	10.0	A0	1	..	38924b	74	2416	57.5	+12 26	8.3	9.3	K0	3	..	37567b
25	1603	57.2	+51 54	8.7	9.2	F8	2	..	38321i	75	2562	57.5	+ 8 38	7.78	9.13	Ma	4	..	11381b
26	2180	57.2	+43 42	8.4	9.4	K0	4	..	4906m	76	3420	57.5	-10 9	8.56	9.12	Go	2	..	13419b
27	2247	57.2	+29 43	9.66	10.44	G5	1	..	37531i	77	3541	57.5	-17 52	9.8	11.0	K5	1	..	40091b
28	2641	57.2	+ 1 6	8.3	9.4	K2	5	..	19342b	78	8999	57.5	-25 48	9.9	10.0	F8	4	..	40323b
29	3405	57.2	- 5 17	9.40	10.18	G5	1	..	13807b	79	7466	57.5	-38 28	8.1	9.2	K2	4	..	13157b
30	3224	57.2	-11 42	9.1	10.2	K2	2	..	41227b	80	6731	57.5	-49 31	9.4	9.0	A0	5	..	19003b
31	8929	57.2	-26 35	9.9	9.3	F8	5	..	40319b	81	4928	57.5	-54 58	7.90	8.7	G5	6	..	40107b
32	7070	57.2	-48 10	9.6	9.8	G5	2	..	19003b	82	4033	57.5	-58 46	9.1	9.0	A0	2	..	38957b
33	6290	57.2	-51 58	7.0	8.3	F2	4	R	10814b	83	3633	57.5	-60 11	8.7	8.7	A	2	R	38957b
34	6290	57.2	-51 58	7.0	8.3	A5	4	R	10814b	84	3635	57.5	-60 39	8.9	9.8	K0	2	..	38828b
35	6292	57.2	-52 6	8.8	9.2	K0	2	..	40107b	85	867	57.5	-74 13	8.5	9.6	K2	2	..	39198b
36	4805	57.2	-55 51	9.4	9.5	A5	2	..	40107b	86	1370	57.6	+60 5	8.7	9.3	Go	2	..	37718i
37	4029	57.2	-58 38	9.1	9.2	A2	1	..	38957b	87	1922	57.6	+46 59	9.1	9.7	Go	5	..	4906m
38	2536	57.2	-62 54	8.4	8.5	A5	5	..	38828b	88	2213	57.6	+32 4	8.8	9.4	Go	2	..	37727i
39	1888	57.2	-67 17	9.0	9.8	G5	1	..	38924b	89	2288	57.6	+25 54	8.10	9.10	K0	3	..	38311i
40	2415	57.3	+12 3	9.0	10.0	K0	1	..	37567b	90	2449	57.6	+25 0	7.91	8.91	K0	4	..	38311i
41	3497	57.3	- 6 45	8.8	8.9	A5	3	..	13807b	91	2563	57.6	+ 8 23	8.7	9.5	G5	2	..	11381b
42	3225	57.3	-11 22	8.1	9.3	K5	3	..	13419b	92	3406	57.6	- 5 55	7.9	8.2	F0	4	..	13807b
43	3302	57.3	-18 44	10.5	11.1	Go	1	..	40314b	93	3421	57.6	-10 5	8.26	8.60	F2	4	..	13419b
44	8996	57.3	-25 53	9.7	9.3	A2	6	..	40319b	94	3378	57.6	-16 30	10.0	10.6	Go	2	..	40091b
45	9426	57.3	-31 56	9.9	10.2	F2	3	..	22921b	95	3303	57.6	-19 5	9.3	9.8	F8	4	..	40314b
46	7858	57.3	-34 24	8.6	9.2	K0	3	..	22921b	96	3563	57.6	-20 51	9.3	10.4	G5	2	..	40314b
47	7378	57.3	-42 50	9.6	10.0	G5	2	..	15605b	97	6926	57.6	-41 13	10.2	10.0	G5	2	..	15605b
48	7485	57.3	-45 36	9.6	9.5	A3	3	..	19003b	98	7487	57.6	-45 50	9.8	9.8	F5	2	..	40423b
49	4903	57.3	-54 7	9.5	9.8	F0	1	..	40107b	99	5204	57.6	-57 32	8.5	9.3	K0	1	..	38957b
50	4927	57.3	-55 0	9.46	9.3	F0	2	..	40107b	100	1604	57.6	-68 38	6.10	6.05	B8	..	0,10	56,130

ANNALS OF HARVARD COLLEGE OBSERVATORY.

104600

11^h 57^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	544	57.7	+73 28	10.0	10.3	Fo	5	..	4907m	51	1776	57.9	-65 9	8.8	9.2	F5	4	..	38828b
2	2242	57.7	+37 12	8.6	8.9	F2	3	..	37727i	52	1606	57.9	-68 45	8.7	8.7	Ao	1	..	38924b
3	2450	57.7	+25 23	8.25	8.75	F8	4	..	3831ii	53	494	57.9	-82 14	9.2	10.2	Ko	1	..	45456b
4	2406	57.7	+15 38	10.0	11.0	Ko	1	..	37567i	54	481	58.0	+74 38	10.5	11.3	G5	2	..	4907m
5	2405	57.7	+15 21	8.6	9.2	Go	5	..	37567i	55	1988	58.0	+44 46	10.5	11.1	Go	1	..	4906m
6	2524	57.7	- 0 53	9.3	9.7	F5	2	..	19158b	56	3405	58.0	-15 53	8.1	8.1	Ao	7	..	40416b
7	2612	57.7	- 1 28	10.3	10.3	Ao	2	..	13418b	57	3462	58.0	-21 21	9.3	10.7	Ko	1	..	40286b
8	3543	57.7	-18 13	10.5	10.6	A3	2	..	40091b	58	9001	58.0	-25 39	9.9	10.8	Fo	3	..	40323b
9	8471	57.7	-32 12	9.2	11.1	Ko	1	5,1	39923b	59	7625	58.0	-37 25	9.3	10.0	Ko	1	..	41405b
10	8135	57.7	-34 0	9.0	10.2	Ko	2	..	22921b	60	7624	58.0	-38 3	8.6	8.3	F5	5	..	13157b
11	7643	57.7	-35 21	8.2	9.4	Ma	3	..	22921b	61	7469	58.0	-38 13	9.2	9.5	Fo	2	..	41405b
12	7610	57.7	-36 26	7.8	9.1	Ko	4	..	13157b	62	7470	58.0	-38 17	7.8	9.2	Ko	4	..	13157b
13	7381	57.7	-42 13	10.0	10.3	K2	1	..	15605b	63	7491	58.0	-45 58	9.1	9.2	Go	4	..	40423b
14	7488	57.7	-45 50	9.6	10.1	K	1	..	40423b	64	7335	58.0	-47 38	6.80	7.2	A2	6	3,10	10814b
15	7606	57.7	-46 30	8.4	9.2	K5	3	..	40423b	65	7080	58.0	-48 42	9.2	9.8	Go	3	..	19003b
16	4026	57.7	-59 37	9.0	9.0	Ao	3	..	38957b	66	7081	58.0	-49 6	7.3	8.0	Ao	4	2,9	10814b
17	3642	57.7	-60 22	8.9	8.9	B9	4	..	38957b	67	4933	58.0	-54 15	9.8	9.8	Ao	2	..	40107b
18	1890	57.7	-67 32	9.4	9.4	Ao	3	..	38924b	68	4932	58.0	-54 38	7.6	9.6	Ma	2	..	40107b
19	404	57.8	+78 15	9.1	9.6	F8	3	..	37465i	69	2919	58.0	-61 15	9.2	9.2	B8	2	..	38828b
20	1352	57.8	+57 59	9.5	10.1	G	1	..	38321i	70	2918	58.0	-61 26	8.5	8.6	Ao	4	..	38828b
21	2087	57.8	+27 34	9.2	10.2	Ko	2	..	3831ii	71	2543	58.0	-62 45	4.48	4.62	A5	..	3,7 R	28,206
22	2485	57.8	+13 22	7.43	7.71	Fo	4	..	37680i	72	2544	58.0	-62 53	9.4	9.4	A	3	..	38828b
23	2576	57.8	+ 9 15	8.45	8.87	F5	5	..	11381b	73	1777	58.0	-65 39	9.4	9.7	F2	2	..	38828b
24	2562	57.8	+ 4 43	8.96	8.96	Ao	5	..	19342b	74	1923	58.1	+47 42	8.2	9.2	Ko	2	..	38429i
25	3499	57.8	- 7 7	6.46	7.64	K5	7	..	13807b	75	2244	58.1	+37 17	9.2	10.2	K	1	..	37727i
26	3228	57.8	-11 15	8.8	8.8	Ao	5	..	13419b	76	2526	58.1	- 1 5	8.5	9.6	K2	4	..	19158b
27	3379	57.8	-17 7	9.1	10.3	K5	2	..	40091b	77	3453	58.1	- 2 50	7.7	8.8	K2	5	..	19158b
28	3304	57.8	-18 35	10.2	11.0	G5	1	..	40314b	78	9257	58.1	-28 42	8.16	9.3	Ko	7	..	40319b
29	8137	57.8	-33 23	9.6	10.2	K2	1	..	22921b	79	8479	58.1	-33 7	9.3	10.2	F	1	..	22921b
30	6928	57.8	-41 37	8.1	9.2	K2	2	0,2	41405b	80	7471	58.1	-38 49	9.3	10.0	Ao	2	..	13157b
31	2914	57.8	-61 36	7.2	6.5	Bo	4	5,8	43211b	81	7082	58.1	-48 38	8.6	9.0	A2	7	..	19003b
32	1776	57.8	-65 5	8.8	8.9	A2	5	..	38828b	82	4027	58.1	-59 49	8.4	9.3	K2	1	..	38957b
33	1774	57.8	-65 22	9.8	9.8	Ao	2	..	38828b	83	2115	58.1	-63 47	8.2	8.0	B3	5	..	38828b
34	1891	57.8	-68 1	7.4	7.9	F8	4	..	38924b	84	1779	58.1	-65 16	8.08	8.9	B9	5	..	38828b
35	2153	57.9	+43 48	8.2	9.0	G5	5	..	4906m	85	870	58.1	-74 23	9.6	9.6	Ao	2	..	39198b
36	2265	57.9	+41 37	8.2	8.6	F5	5	..	17453i	86	438	58.2	+76 39	10.5	10.6	A2	2	..	4907m
37	3189	57.9	- 4 43	8.9	9.2	Fo	2	..	13807b	87	2281	58.2	+34 9	9.2	9.6	F5	2	..	37727i
38	3422	57.9	-10 11	7.51	7.93	F5	8	..	13419b	88	2251	58.2	+29 41	8.46	9.53	K2	2	..	37531i
39	3553	57.9	-12 31	9.3	10.3	Ko	2	..	40416b	89	2486	58.2	+13 34	9.7	10.7	Ko	2	..	37567b
40	3305	57.9	-18 40	9.8	9.9	A3	2	..	40314b	90	2563	58.2	+ 3 47	9.7	10.0	F2	2	..	19342b
41	3461	57.9	-21 35	7.96	9.2	K5	3	..	13147b	91	3380	58.2	-16 43	8.7	9.7	Ko	4	..	40091b
42	8935	57.9	-26 12	10.1	11.4	K5	1	..	40323b	92	9632	58.2	-30 43	9.7	11.1	K2	3	..	40319b
43	8465	57.9	-27 41	8.2	9.3	Ko	5	..	40319b	93	8480	58.2	-32 26	9.6	11.0	Ko	2	5,1	39923b
44	9629	57.9	-31 8	7.51	8.5	Ko	7	..	22921b	94	7473	58.2	-38 42	9.2	9.8	G5	1	..	13157b
45	7384	57.9	-42 47	8.4	9.1	Ko	2	..	13389b	95	4820	58.2	-55 14	8.86	8.4	B9	5	..	40107b
46	4968	57.9	-56 42	7.2	8.1	Ko	5	..	38957b	96	5212	58.2	-57 20	8.9	9.3	Ko	2	..	38957b
47	5209	57.9	-57 32	9.6	9.6	Ao	1	..	38957b	97	2116	58.2	-63 22	9.4	9.4	Ao	3	..	38828b
48	3647	57.9	-60 21	9.0	8.9	B9	5	..	38957b	98	355	58.3	+82 15	7.62	8.40	G5	5	..	37465i
49	2915	57.9	-62 6	8.0	7.4	B5	5	..	38828b	99	2372	58.3	+ 9 49	8.42	8.70	Fo	4	..	13724b
50	2542	57.9	-63 6	9.6	9.7	A2	3	..	38828b	100	8941	58.3	-26 39	10.4	10.7	Go	2	..	40323b

THE HENRY DRAPER CATALOGUE.

104700

11^h 58^m.3

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	9633	58.3	-30 56	8.7	9.3	Ko	5	..	22921b	51	1894	58.6	-67 44	8.4	8.4	B9	4	..	38924b
2	8481	58.3	-33 0	9.3	11.0	F5	1	..	22921b	52	924	58.6	-73 39	6.32	7.8	Ko	9	..	39198b
3	6745	58.3	-49 36	10.9	10.1	A2	2	..	40423b	53	1990	58.7	+45 26	8.9	9.5	Go	4	..	4906m
4	4934	58.3	-54 46	7.0	8.4	Ko	7	..	40107b	54	2676	58.7	+19 57	8.38	9.16	G5	2	..	38402i
5	2549	58.3	-62 8	7.9	7.7	Bo	5	..	38828b	55	2543	58.7	+6 8	6.52	6.94	F5	8	0,9	38338i
6	1301	58.3	-71 47	9.0	9.1	A2	4	..	39198b	56	3485	58.7	-13 21	8.7	9.8	K2	2	..	13419b
7	..	58.4	+46 39	..	..	F8	1	..	4906m	57	10350	58.7	-23 51	9.9	10.1	G5	2	..	40286b
8	..	58.4	+46 35	..	..	G5	1	..	4906m	58	9442	58.7	-31 54	8.5	8.1	A2	8	..	22921b
9	2268	58.4	+41 24	8.8	9.4	Go	1	..	17453i	59	7447	58.7	-43 33	8.5	9.5	F8	6	R	13389b
10	2217	58.4	+30 14	7.66	9.01	Mb	4	..	37727i	60	7446	58.7	-43 34	8.3	8.0	F8	6	..	13389b
11	2613	58.4	-1 53	7.9	8.2	Fo	7	..	19158b	61	7625	58.7	-46 52	8.9	9.5	Ko	2	..	40423b
12	3382	58.4	-16 40	9.6	10.7	K2	1	..	40091b	62	7341	58.7	-47 54	10.2	9.8	A3	2	..	40423b
13	3383	58.4	-16 55	9.8	10.4	Go	2	..	40091b	63	7096	58.7	-48 47	10.2	10.1	Ao	2	..	40423b
14	3309	58.4	-18 44	9.3	9.7	F5	3	..	40314b	64	4935	58.7	-54 9	7.4	8.1	F2	8	..	40107b
15	8143	58.4	-34 2	9.3	9.9	A2	3	..	22921b	65	5217	58.7	-57 11	8.2	7.8	B8	6	2,3	38957b
16	7620	58.4	-36 21	9.6	9.4	F2	2	..	13157b	66	2925	58.7	-61 15	9.1	9.7	Ao	1	..	38828b
17	7618	58.4	-36 47	8.9	9.8	Ko	2	..	13157b	67	925	58.7	-73 19	9.4	10.8	Mb	..	..	M
18	7619	58.4	-36 59	10.2	10.3	Ko	1	..	41405b	68	482	58.8	+74 12	10.5	11.5	Ko	1	..	4907m
19	7443	58.4	-43 53	9.6	9.8	A3	2	..	15605b	69	2417	58.8	+12 24	10.0	10.5	F8	2	..	37567b
20	7495	58.4	-45 36	9.6	10.4	K2	1	..	40423b	70	2567	58.8	+3 54	9.3	9.9	Go	4	..	19342b
21	6748	58.4	-49 18	10.9	9.9	Ao	2	..	40423b	71	9526	58.8	-29 52	10.1	11.1	Ko	1	..	40319b
22	3663	58.4	-60 32	7.7	7.4	B8	7	..	38957b	72	7877	58.8	-34 14	7.8	9.2	K5	4	..	22921b
23	2551	58.4	-62 54	8.4	9.4	Ko	4	..	38828b	73	7878	58.8	-34 23	11.1	9.8	F5	2	..	22921b
24	1302	58.4	-71 38	7.7	8.5	G5	7	..	39198b	74	7659	58.8	-35 31	9.0	9.8	G5	1	..	13326b
25	638	58.5	+69 35	7.10	8.17	K2	5	..	38683i	75	6622	58.8	-50 15	8.14	9.3	K5	3	..	19003b
26	2187	58.5	+33 37	9.0	9.6	Go	1	..	37727i	76	5183	58.8	-52 56	7.15	8.3	G5	7	..	40107b
27	2527	58.5	-0 19	9.38	9.94	Go	2	..	19158b	77	2558	58.8	-62 29	9.2	9.2	B8	1	..	38828b
28	3192	58.5	-4 55	7.20	7.20	Ao	9	..	13807b	78	2122	58.8	-63 26	9.4	9.4	Ao	2	..	38828b
29	8942	58.5	-26 18	10.6	10.7	F8	1	..	40323b	79	1304	58.8	-71 15	9.2	10.4	K5	1	..	39198b
30	9438	58.5	-31 42	8.4	8.4	Ko	7	..	22921b	80	194	58.8	-87 50	9.4	9.7	Fo	2	..	22238b
31	6938	58.5	-41 52	5.28	6.0	Fo	..	5,8	56,130	81	439	58.9	+76 37	7.9	8.0	A3	5	0,9	38332i
32	4913	58.5	-54 8	8.4	9.5	Ko	2	..	40107b	82	1214	58.9	+61 58	7.92	8.92	Ko	5	..	37718i
33	4822	58.5	-55 43	9.7	9.8	A5	2	..	40107b	83	2297	58.9	+38 33	8.9	9.9	Ko	1	..	17453i
34	4976	58.5	-57 2	8.4	8.0	A3	5	0,2	38957b	84	2454	58.9	+25 30	8.00	8.56	Go	4	..	38311i
35	4031	58.5	-59 56	8.7	9.2	Ao	1	..	38957b	85	2526	58.9	+19 23	7.70	8.77	K2	3	..	38402i
36	3665	58.5	-60 23	8.8	9.2	Ko	2	..	38957b	86	3230	58.9	-3 33	9.2	10.0	G5	2	..	19158b
37	3664	58.5	-60 31	8.7	8.7	Ao	2	..	38957b	87	3229	58.9	-4 12	9.3	10.5	K5	2	..	19158b
38	2552	58.5	-62 48	10.0	10.0	Ao	2	..	38828b	88	3425	58.9	-9 44	6.59	6.65	A2	10	..	13807b
39	639	58.6	+69 30	8.01	9.08	K2	2	..	38683i	89	3385	58.9	-17 1	10.2	11.2	Ko	1	..	40091b
40	1769	58.6	+46 23	10.2	11.0	G5	2	..	4906m	90	3400	58.9	-20 0	9.3	10.1	Ko	2	..	40314b
41	1989	58.6	+44 47	10.5	11.3	G5	2	..	4906m	91	9528	58.9	-30 4	9.49	10.2	Ko	4	..	40319b
42	2453	58.6	+25 40	9.0	9.8	G5	1	..	38311i	92	7099	58.9	-48 23	9.8	9.6	Go	4	..	40423b
43	9262	58.6	-29 7	9.3	9.7	A2	6	..	40319b	93	7098	58.9	-48 53	10.5	10.3	F2	2	..	40423b
44	9637	58.6	-30 18	10.1	11.1	K2	2	..	40319b	94	6312	58.9	-52 6	9.8	9.3	A5	2	..	40107b
45	9440	58.6	-31 52	9.1	11.1	Mb	1	..	39923b	95	4048	58.9	-58 10	8.9	8.4	B8	3	..	38957b
46	7631	58.6	-37 16	10.2	10.0	Ko	1	..	41405b	96	458	59.0	+76 54	9.1	9.9	G5	5	..	4907m
47	7479	58.6	-38 27	6.64	7.7	F5	5	5,10	43289b	97	2074	59.0	+28 37	8.4	8.8	F5	4	..	38311i
48	7498	58.6	-46 2	9.6	10.1	Ko	1	..	40423b	98	2373	59.0	+10 15	8.5	9.6	K2	2	..	13724b
49	6752	58.6	-49 15	9.8	9.6	Ko	2	..	40423b	99	2510	59.0	+7 45	9.5	9.9	F5	2	..	13724b
50	4032	58.6	-59 11	9.1	8.9	Ao	2	..	38957b	100	2568	59.0	+3 55	9.3	9.9	Go	3	..	19342b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

104800

11^h 59^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3454	59.0	-14 43	8.8	9.8	Ko	4	..	40416b	51	2593	59.4	+ 3 11	9.3	10.7	Ma	2	..	19342b
2	3310	59.0	-18 35	10.2	11.2	Ko	1	..	40091b	52	2645	59.4	+ 1 15	9.3	9.9	Go	1	..	9465b
3	8484	59.0	-32 41	9.3	10.8	F8	2	..	22921b	53	3402	59.4	-20 4	9.3	9.3	Fo	4	..	40314b
4	7880	59.0	-34 47	8.9	9.2	F5	4	..	22921b	54	9268	59.4	-28 16	10.8	11.6	Ko	1	..	40323b
5	6942	59.0	-41 9	8.2	8.8	Ao	6	2,6	13389b	55	7511	59.4	-45 37	10.5	10.4	G5	1	..	40423b
6	7506	59.0	-45 22	9.2	9.8	K5	2	..	19003b	56	6326	59.4	-52 8	9.8	9.6	F8	1	..	40107b
7	7631	59.0	-46 48	8.9	9.5	G5	2	..	40423b	57	2563	59.4	-63 1	8.4	9.4	Ko	3	..	38828b
8	7344	59.0	-47 33	9.2	9.2	A5	4	..	19003b	58	1697	59.4	-66 29	9.4	9.4	B8	2	..	38924b
9	2931	59.0	-61 44	9.2	9.2	B9	2	..	38828b	59	483	59.5	+74 20	10.5	11.3	G5	1	..	4907m
10	2124	59.0	-63 58	7.2	7.2	B8	7	..	38828b	60	730	59.5	+66 54	7.87	8.37	F8	4	..	37718i
11	1610	59.0	-68 58	7.1	7.9	G5	5	R	38924b	61	996	59.5	+63 41	9.7	10.0	Fo	2	..	37718i
12		59.0	-68 58	7.1	7.9	A2	5	R	38924b	62	2235	59.5	+36 7	7.52	8.52	Ko	5	..	37727i
13	1991	59.1	+45 0	8.2	9.2	Ko	6	0,2	4906m	63	2594	59.5	+ 3 43	8.3	9.4	K2	7	..	19342b
14	2269	59.1	+41 43	8.7	9.2	F8	2	..	17453i	64	2647	59.5	+ 1 18	9.3	10.1	G5	1	..	9465b
15	2422	59.1	+24 41	8.41	8.83	F5	3	..	38311i	65	2529	59.5	- 0 46	9.5	10.3	G5	2	..	19158b
16	2592	59.1	+ 3 28	9.3	9.8	F8	3	..	19342b	66	3276	59.5	-22 32	10.0	10.4	Go	2	..	40286b
17	2509	59.1	+ 2 2	7.6	7.7	A2	4	2,7	38338i	67	9269	59.5	-28 30	11.1	11.1	Go	1	..	40323b
18	3279	59.1	- 9 8	9.3	10.3	Ko	3	..	13807b	68	9648	59.5	-30 37	8.1	8.3	F2	9	..	22921b
19	3463	59.1	-21 49	7.7	8.9	K5	5	..	13147b	69	6768	59.5	-49 28	8.3	8.3	A2	2	0,7	10814b
20	6318	59.1	-51 29	10.0	9.6	Ao	2	..	40107b	70	6634	59.5	-50 48	8.8	8.9	G5	4	..	40107b
21	4918	59.1	-53 36	9.5	9.5	Ao	3	..	40107b	71	4945	59.5	-54 26	9.1	10.3	K5	1	..	40107b
22	4984	59.1	-56 48	7.9	7.6	Ao	4	0,7	43211b	72	4946	59.5	-54 52	7.7	7.7	Ao	4	1,9	43211b
23	3679	59.1	-60 17	9.7	9.7	Ao	1	..	38957b	73	4828	59.5	-56 3	9.2	9.2	Ao	4	..	40107b
24	1782	59.1	-64 49	9.1	9.1	Ao	4	..	38828b	74	4990	59.5	-57 6	8.8	8.6	B9	4	..	38957b
25	601	59.2	+71 42	8.9	9.5	Go	2	..	38683i	75	5227	59.5	-57 56	9.1	8.6	Ao	3	..	38957b
26	877	59.2	+64 39	8.40	9.18	G5	3	..	37718i	76	2564	59.5	-62 20	9.4	9.2	Bo	2	..	38828b
27	2437	59.2	+22 1	5.77	6.05	Fo	9	..	38311i	77	2565	59.5	-62 58	10.2	10.2	B8	2	..	38828b
28	2374	59.2	+ 9 45	10.0	11.0	Ko	2	..	37567b	78	1896	59.5	-67 46	5.42	5.42	Ao	..	..	56,130
29	2566	59.2	+ 7 57	8.5	9.0	F8	3	R	13724b	79	1457	59.5	-70 39	7.8	8.8	Ko	4	5,4	38923b
30		59.2	+ 7 57	8.5	9.0	F8	3	R	13724b	80	997	59.6	+63 33	8.8	9.4	G	2	..	37718i
31	2580	59.2	+ 5 30	7.6	9.0	Ma	5	..	13724b	81	1488	59.6	+54 39	8.16	8.94	G5	3	..	38321i
32	3454	59.2	- 2 17	9.1	9.9	G5	1	..	19158b	82	2156	59.6	+43 55	9.0	9.3	F2	6	3,2-	4906m
33	3280	59.2	- 8 48	8.9	9.2	Fo	4	..	13807b	83	2430	59.6	+16 51	7.5	8.0	F8	4	..	3866oi
34	3456	59.2	-14 33	9.6	10.0	F5	3	..	40416b	84	2569	59.6	+ 4 8	7.24	8.24	Ko	8	..	19342b
35	3569	59.2	-20 29	7.88	8.3	A2	8	..	13147b	85	2648	59.6	+ 0 47	9.24	9.80	Go	1	..	9465b
36	3273	59.2	-22 21	9.8	10.1	A2	2	..	40286b	86	3199	59.6	- 5 13	var.	var.	Ko	2	R	13807b
37	9447	59.2	-31 33	8.4	8.4	Fo	9	..	22921b	87	3339	59.6	- 7 25	7.7	7.7	Ao	7	..	13807b
38	8151	59.2	-33 45	9.5	11.1	Ao	2	..	22921b	88	3396	59.6	-10 34	9.1	10.2	K2	3	..	41227b
39	6630	59.2	-50 55	6.76	7.0	Ao	7	0,10	10814b	89	3409	59.6	-16 9	9.1	10.1	Ko	3	..	40091b
40	4919	59.2	-54 7	8.3	9.8	K5	2	..	40107b	90	3546	59.6	-17 17	8.7	9.5	G5	4	..	40091b
41	2561	59.2	-62 36	4.98	4.81	B3	..	2,7 R	28,206	91	3571	59.6	-20 47	8.7	8.6	A2	6	..	13147b
42	1624	59.2	-69 10	8.4	9.4	Ko	1	..	38924b	92	10133	59.6	-24 20	9.1	10.2	K5	3	..	40286b
43	1197	59.2	-73 3	7.7	8.7	Ko	5	..	39198b	93	9270	59.6	-28 37	9.6	10.8	Ko	2	..	40323b
44	..	59.3	+44 29	..	..	G5	1	..	4906m	94	7635	59.6	-36 30	9.2	10.0	Ko	1	..	13157b
45	2246	59.3	+36 54	8.6	9.6	Ko	2	..	37727i	95	6770	59.6	-50 0	8.66	9.6	G5	2	..	19003b
46	3311	59.3	-18 37	10.5	11.5	Ko	1	..	40091b	96	6329	59.6	-51 21	10.2	9.8	Ao	1	..	40107b
47	8478	59.3	-28 1	9.4	10.5	G5	2	..	40319b	97	6330	59.6	-51 47	8.5	8.6	F2	4	..	40107b
48	3683	59.3	-60 28	8.5	8.0	B3	5	..	38957b	98	4921	59.6	-53 23	8.9	9.5	Go	2	..	40107b
49	1696	59.3	-66 15	9.1	9.1	B8	4	..	38924b	99	4994	59.6	-56 38	8.8	8.6	Ao	3	..	38957b
50	1198	59.3	-72 25	10.2	10.2	Ao	1	..	39198b	100	4058	59.6	-58 41	6.54	6.1	B9	7	1,9	43211b

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104900

11^h 59^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2933	59.6	-61 26	8.4	8.0	B8	7	R	38828b	28	3466	59.8	-21 17	9.6	10.2	Ko	1	..	19401b
2	777	59.6	-75 57	5.00	7.1	K5	..	3,8 R	28,206	29	8483	59.8	-28 5	9.4	9.3	Fo	5	..	40319b
3	547	59.6	-81 42	8.4	9.4	Ko	3	0,2	45456b	30	6331	59.8	-51 39	10.5	9.9	Ao	1	..	40107b
4	176	59.7	+86 8	6.38	6.80	F5	8	3,10	38332i	31	6332	59.8	-51 51	10.2	9.8	Fo	1	..	40107b
5	1355	59.7	+58 41	8.9	9.7	G5	2	..	37718i	32	4044	59.8	-59 18	8.4	8.6	F5	3	..	38957b
6	2189	59.7	+33 24	8.6	9.6	Ko	3	..	37727i	33	3697	59.8	-60 24	5.96	8.4	Ma	..	5,6	56,130
7	2420	59.7	+12 13	9.3	10.3	Ko	1	..	37567i	34	2569	59.8	-63 0	9.7	9.7	B8	2	..	38828b
8	2422	59.7	+11 22	10.0	10.6	Go	2	..	37567b	35	1627	59.8	-69 15	8.3	9.3	Ko	2	..	38924b
9	2531	59.7	-0 36	8.6	9.0	F5	6	..	19158b	36	1626	59.8	-69 26	8.1	9.3	K5	3	..	38924b
10	3560	59.7	-13 11	8.9	9.2	F2	2	..	13419b	37	1458	59.8	-70 51	8.9	9.7	G5	2	..	39198b
11	3547	59.7	-18 0	10.0	11.0	Ko	1	..	40091b	38	875	59.8	-75 7	7.92	9.1	K2	4	..	39198b
12	3312	59.7	-19 7	10.5	11.1	Go	2	..	40314b	39	1607	59.9	+51 48	8.9	9.3	F5	2	..	38321i
13	9651	59.7	-30 22	10.8	9.9	Go	2	..	40323b	40	1725	59.9	+50 51	8.4	9.6	K5	1	..	38429i
14	8493	59.7	-32 14	7.58	8.4	G5	5	..	22921b	41	2421	59.9	+11 53	8.7	9.2	F8	6	..	37567i
15	7892	59.7	-34 13	8.2	8.6	F2	7	..	22921b	42	2375	59.9	+9 48	8.18	8.52	F2	7	..	13724b
16	7641	59.7	-47 7	9.1	10.1	Ko	2	..	40423b	43	2570	59.9	+3 56	8.5	9.6	K2	5	..	19342b
17	6635	59.7	-50 18	8.9	8.4	A2	7	..	40107b	44	3232	59.9	-3 29	10.0	11.0	Ko	1	..	19158b
18	2936	59.7	-62 2	9.7	9.7	B9	1	..	38828b	45	3340	59.9	-7 58	8.5	9.6	K2	2	..	13807b
19	2135	59.7	-63 36	9.2	10.0	G5	1	..	38828b	46	3486	59.9	-13 58	8.1	9.2	K2	3	..	13419b
20	1306	59.7	-71 54	7.8	7.8	B9	7	..	39198b	47	8486	59.9	-27 12	10.8	11.0	F8	2	..	40323b
21	1305	59.7	-71 58	9.3	9.3	A	4	..	39198b	48	7897	59.9	-35 5	8.93	9.4	Ko	3	..	22921b
22	1992	59.8	+45 29	10.5	11.3	G5	1	..	4906m	49	7515	59.9	-45 38	8.9	9.5	K2	3	..	19003b
23	2564	59.8	+18 3	8.1	8.9	G5	2	..	3866oi	50	6641	59.9	-50 38	7.3	8.7	K2	5	..	40107b
24	2579	59.8	+9 43	9.17	9.73	Go	3	..	37567b	51	4949	59.9	-54 29	10.1	10.1	Ao	2	..	40107b
25	2581	59.8	+9 16	9.7	10.5	G5	3	..	13724b	52	4832	59.9	-55 36	9.7	9.8	A2	2	..	40107b
26	3314	59.8	-18 49	9.3	9.4	A2	4	..	40314b	53	3701	59.9	-60 18	8.5	9.2	Ko	2	..	38957b
27	3313	59.8	-19 0	9.2	10.3	K2	3	..	40314b										

REMARKS.

77959. The lines are indistinct.

77996. ω Hydrae.78000. S Pyxidis. Variable. Class II. Max. 8.2. Min. 13.0. Period, 208^d. On a photograph taken April 27, 1897, the spectrum is of Class Ma, having H γ and H δ bright and nearly equal in intensity.

78004. c Velorum. Line 4226.9 is very strong. All the lines are sharply defined and several bright spaces are conspicuous.

78014. RX Hydrae. Variable. Class V. Max. 9.0. Min. 11.5. Period, 2^d. 2817.78045. α Volantis. A spectroscopic binary in which both components are bright.78154. σ^2 Ursae Majoris. Read 3, 10 R, for 3, R.

78209. f Ursae Majoris. The spectrum is peculiar and probably composite. The hydrogen lines are as intense as in Class A3, while the metallic lines resemble those of Class F5.

78220. C. DM. -26° 6731 = C. P. D. -26° 3801 and 3802, magn. 9.2, and 9.2. The spectrum of the following star is uncertain.

78235. τ Cancr.78316. κ Cancr. A spectroscopic binary in which both components are bright. Read 1, 10 R, for 1, R.78362,3. τ Ursae Majoris. Bu. 4930. P. A. 48°.7, Dist. 57".22. The spectrum is composite. See H.A. 28, 100, Remark 161. The star is also a spectroscopic binary, and the close companion doubtless causes the peculiarity in the spectrum.78418. The line H δ is strong for Class G5.78515. ξ Cancr.78541. κ Pyxidis.

78572. The spectrum was suspected to be composite, but the peculiarity has not been confirmed.

78585. W Cancr. Variable. Class II. Max. 7.4. Min. 14.0. Period, 385^d. On a photograph taken January 7,

- 1894, the spectrum is of Class Ma, having the lines H γ and H δ bright. The line H δ is 5 times as bright as H γ .
78647. λ Velorum. The hydrogen lines are strong for this class.
78695. Perhaps of Class K2.
78712. RS Cancr. Variable. Class III. Max. 5.4. Min. 6.6. Period, irregular.
78764. E Carinae. The line H β is a narrow bright line, having only a slight contrast to other portions of the spectrum, and superposed on a wide dark band.
- 78774.5. H. D. 78774 precedes 4', south 1'.0.
78791. G Carinae. Line 4077.9 is stronger than normal. Read 5,10 R, for 5, R.
78801. ν Velorum. Variable. Class IV. Max. 8.1. Min. 9.0. Period, unknown.
78922. ϵ Pyxidis. Read 1,10 R, for 1, R.
78982. The star +20° 2282, ptm. magn. 8.9, follows 0'.3, south 4'.8. The spectrum is superposed and appears to be of Class K.
78991. Index Catalogue, 2448. Gaseous nebula.
79028. c Ursae Majoris.
- 79210.1. H. D. 79210 precedes 1'.9, south 0'.2. Bu. 4972. P. A. 65°.4, Dist. 19°.05. The photometric magnitudes of the two components are 7.90 and 8.01, respectively. Parallax, 0".15. Proper motion, 1".69, 248°.5.
79256. The star C.DM. -41° 4883, ptm. magn. 11.1, precedes 0'.2, south 1'.0. The spectrum is superposed and is also of Class A.
- 79267.8. The spectrum is composite.
79351. a Carinae.
79371. The observation, Ko, on I 38639, residual 10, was rejected. The spectrum is very faint on that plate.
79384. N. G. C. 2792. Ptm. magn. 11.8. Planetary nebula.
79402. SY Velorum. Variable. Class III. Max. 8.5. Min. 9.5. Period perhaps irregular.
79439. e Ursae Majoris. Read 3,10 R, for 3, R.
79447. i Carinae.
79469. θ Hydrae.
79554. π Cancr.
79609. Perhaps of Class F5.
79611. The classification is difficult, owing to the partial superposition of the spectra of H. D. 79610 and H. D. 79638.
79627. N. G. C. 2808. Globular cluster. A trace is seen of the dark lines H and K, but other portions of the spectrum appear to be nebulous without lines.
79646. The lines are narrow.
79735. z Velorum.
79837. ζ Octantis. Read 2,10 R, for 2, R.
79870. Lines 4128.1 and 4131.1 are well marked.
79917. l Velorum.
79940. k Velorum.
79957. The spectrum is suspected to be composite. Traces of lines are seen which may belong to a fainter spectrum of Class G or K.
80007. β Carinae. The line K is stronger than in the typical star. Read 0,10 R, for 0, R.
80038. C. DM. -46° 5043 = C. P. D. -46° 3529 and 3530. The latter star follows 1'.0, north 0'.4. The photographic magnitudes on the International Scale are 10.4 and 10.7.
80077. All lines are very faint except H γ which is well marked. H δ is suspected to be bright.
80092. The star C. P. D. -54° 2131, magn. 8.7, follows 1'.0, south 0'.4. The spectrum may be also of Class A.
80139. The star C. DM. -41° 4950, ptm. magn. 9.6, follows 2'.8, north 5'.6. The spectrum may be of Class G.
80209. The spectrum is very indistinct and the class is uncertain.
80230. g Carinae. The observation, G5, on B 38748, residual 10, was rejected. The image is too dense on that plate to show the true nature of the spectrum.
80255. RU Carinae. Variable. Max. 10.9. Min. 12.1. Period, irregular.
80283. The star C. P. D. -58° 1458, magn. 9.0, follows 0'.0, south 0'.4. The spectrum appears to be also of Class A.
80348. The spectrum is indistinct on both plates.
- 80388, 9. Bu. 5017. P. A. 171°.4, Dist. 29°.02. Magn. 8.58 and 8.88 in the Potsdam Catalogue. On chart plates, the north preceding component is seen to be about 0.4 brighter than the south following. The spectrum is hazy. Both may be of Class G.
80404. ι Carinae.
80456. K Velorum.
80519. The spectrum may be nearer to Class G than to K.
80558. The lines are narrow and the spectrum is like that of β Orionis. The observation, Bo, on B 42951, residual 8, was rejected. The lines are not well seen on that plate.
80586. P Hydrae.
- 80606.7. H. D. 80606 precedes 2'.23, south 0'.5. The stars appear nearly equally bright on a chart plate.
80714. The observation, G5, on I 38639, residual 13, was rejected. The spectrum is faint and near the edge on that plate.
80741. Perhaps of Class B8.
80834. The lines are so faint that the spectrum appears to be nearly continuous.
80837. RW Velorum. Variable. Class II. Max. 8.5. Min. 11.0. Period, unknown. On a photograph taken April 13, 1910, the spectrum is of Class Mc, having the line H δ bright.
80874. θ Pyxidis. Read 5,10 R, for 5, R.
81055. RW Carinae. Variable. Class II. Max. 8.5. Min. <11.5. Period, 322^d. On a photograph taken May 21, 1898, the spectrum is of Class Mb, having the lines H γ , H δ and H ζ bright. The relative intensities are 10, 20 and 1.
81062. Perhaps of Class A5.
81101. k Carinae. The line 4226.9 is about 0.8 as intense as in the spectrum of a Phoenixis.
81119. N. G. C. 2867. Planetary nebula.
81146. κ Leonis.
81163. The line H δ is strong for this class and the continuous spectrum resembles that of Class G5 or Ko.
81169. λ Pyxidis.
81188. κ Velorum.
81222. V Velorum. Variable. Class IV. Max. 7.5. Min. 8.2. Period, 4^d.3709.

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81405. Lines 4077.9, 4128.1, and 4131.1 are well marked.
81432. RS Velorum. Variable. Class II. Max. 9.5. Min. <13.5. Period, 421^d. On a photograph taken March 24, 1909, the spectrum is of Class Mc, having H γ and H δ bright. The latter line is 10 times as bright as H γ .
81471. The lines are narrow.
81539. The spectrum is near the edge of the second plate.
81711. The observation, F₂, on B 13154, residual 10, was rejected. The spectrum is indistinct on that plate.
81774. The spectrum is suspected to be composite.
81780. Read 0.10, for 0.2.
81797. α Hydrae.
81799. G Hydrae. Read 0.10 R, for 0.2.
81848. I Velorum.
81858. ω Leonis.
81937. h Ursae Majoris. The lines are somewhat narrow.
81997. τ^1 Hydrae. Read 0.10 R, for 0.2.
- 82072.3. The spectrum is composite. Bu. 5114. P. A. 30°.9, Dist. 0°.69, magn. 7.7 and 8.5.
- 82084.5. The spectrum is composite.
82109. The photometric magnitude of this star combined with H.D. 82121, as given in H.A. 54, 109, is 7.18.
82121. See H. D. 82109.
82150. ϵ Antliae. Read 2.10 R, for 2.2.
82210. d Ursae Majoris. Read 0.10 R, for 0.2.
82308. λ Leonis. Read 0.10 R, for 0.2.
82328. θ Ursae Majoris. The hydrogen lines are as strong as in Class F₅, while line 4226.9 and several other metallic lines are as strong as in Class G₅. Proper motion, 1".11, 239°.7.
82381. h Leonis.
- 82383.4. ζ^1 Antliae. Innes 9^a 39. P. A. 210°.5, Dist. 8°.49, combined magn. 5.94.
82395. ξ Leonis.
82434. ψ Velorum.
82446. τ^2 Hydrae.
82513. ζ^2 Antliae.
82554. ι Chamaeleontis. The lines are narrow and sharply defined and resemble in intensity those in the spectrum of ϵ Aurigae.
82610. S Antliae. Variable. Class IV. Max. 6.3. Min. 6.8. Period, 0^d.32416936.
82668. N Velorum. Suspected of variability. Read 5.10 R, for 5.2.
82818. The star +14° 2111, ptm. magn. 10.6, precedes 3°.1, north 6'.4. The spectrum is superposed and appears to be of Class G.
82829. S Velorum. Variable. Class V. Max. 7.8. Min. 9.3. Period, 5^d.933577.
- 82847.8. C. DM. -20° 2942 = C. P. D. -20° 4613 and 4614. The latter star follows 1°.0, north 0'.5
82850. U Velorum. Variable. Class III. Max. 8.2. Min. 8.6. Period, irregular.
82870. A Hydrae.
82901. R Carinae. Variable. Class II. Max. 4.5. Min. 10.0. Period, 309^d.3. On a photograph taken April 3, 1896, the spectrum is of Class Mb, having the lines H γ , H δ , H ζ , H η , H θ , and H ι bright. The relative intensities are 10, 50, 4, 3, 1, and 0.5, respectively.
83048. X Hydrae. Variable. Class II. Max. 8.4. Min. 11.8. Period, 296^d. On a photograph taken May 11, 1895, a faint spectrum is seen, in which the line H δ is 4 times as bright as H γ .
83058. L Velorum.
83095. H Carinae.
83114. Y Draconis. Variable. Class II. Max. 8.5. Min. 13. Period, 336^d. On a photograph taken December 3, 1904, the spectrum is of Class Mb, having the lines H γ and H δ bright, and of nearly equal intensity.
83167. The star C. DM. -40° 5337, ptm. magn. 10.4, follows 3°.9, north 1'.3. The spectrum is superposed and appears to be also of Class A₂.
83183. h Carinae.
- 83231.2. The spectrum is composite. Innes 9^a 50. P. A. 116°.6, Dist. 7°.33, magn. 8.1 and 9.2.
83255. The spectrum is very faint. It may be nearer to Class F than to G.
- 83270.1. The spectrum is composite.
83331. The observation, G₅, on B 13323, residual 15, was rejected. The spectrum is partly superposed on that of H. D. 83332.
83368. The spectrum resembles that of ξ Phoenicis, H. D. 3980. Lines 4077.9, 4128.1, 4131.1 and 4215.7 are very strong.
83446. M Velorum.
83548. y Velorum.
83618. ι Hydrae. Read 0.10 R, for 0.2.
83625. Lines 4077.9, 4128.1, and 4131.1 are strong. The spectrum is like that of ν Fornacis, H. D. 12767.
83754. κ Hydrae.
- 83808.9. \circ Leonis. The spectrum is composite. This star is a spectroscopic binary.
83831. This star is C. DM. -59° 2484, magn. 10.2, and is not contained in the Cape Photographic Durchmusterung.
83832. I. C. 2501. Gaseous nebula. C. DM. -59° 2483, magn. 10.
83944. m Carinae.
83950. W Ursae Majoris. Variable. Class IV. Max. 7.9. Min. 8.6. Period, 0^d.166815.
83953. I Hydrae. The line H δ is a narrow, bright line superposed on a hazy, dark band. Other lines are dark.
83979. ζ Chamaeleontis.
83989. The observation, A₃, on B 41224, residual 12, was rejected. The spectrum is too near the edge of that plate.
84107. f Leonis. Read 0.10 R, for 0.2.
84123. The lines appear to be narrow.
84127. R Sextantis. Variable. Class III. Max. 9.5. Min. 10.6. Period, irregular.
84194. ψ Leonis.
84228. Read 0.10, for 0.2.
84346. R Leonis Minoris. Variable. Class II. Max. 7.0. Min. 13.0. Period, 371^d.5. On photographs taken December 16, 1908, and January 15, 1909, the spectrum is of Class Mb, having the line H δ 7 times as bright as H γ .
84367. θ Antliae. The spectrum is probably composite. The line K is less intense than H.

84441. ϵ Leonis. The intensities of the lines resemble those in the spectrum of ζ Capricorni. In the distribution of light, the spectrum resembles those of Class Ko. See H.A. 28, 97, Remark 99.
84461. O Velorum.
84474. RR Hydrae. Variable. Class II. Max. 8.4. Min. <13.0. Period, 336^d.8. On a photograph taken January 15, 1905, the spectrum is of Class Ma, having H γ and H δ nearly equally bright. This star is C. P. D. -23° 46'2, and is not contained in the Cordoba Durchmusterung.
84678. The spectrum is peculiar in having a wide absorption band at 4227, and should probably be classed K5R.
84748. R Leonis. Variable. Class II. Max. 4.6. Min. 10.5. Period, 312^d.8. On numerous photographs the spectrum is of Class Mc, having the line H γ from 2 to 8 times as bright as H δ . See also H.A. 56, 255.
84810. I Carinae. Variable. Class IV. Max. 3.6. Min. 5.0. Period, 35^d.523.
84999. ν Ursae Majoris.
85063. The observation, Ma, on B 40221, residual 10, was rejected. The spectrum is in poor focus on that plate.
- 85123.4. ν Carinae. Innes 9^a 52. P. A. 184°, Dist. 0°.25, combined magn. 3.08.
85140. — Carinae. Variable. Class III. Max. 9.3. Min. 10.2. Period unknown, perhaps irregular.
85235. ϕ Ursae Majoris. Read 0,10 R, for 0,R.
85319. — Sextantis. Variable. The range is about 0.34 magn. Period probably irregular.
85340. SU Velorum. Variable. Class III. Max. 9.2. Min. 10.5. Period, irregular.
85355. u Velorum. Read 0,10 R, for 0,R.
85376. g Leonis. Read 0,10 R, for 0,R.
85396. ν Chamaeleontis.
85405. Y Hydrae. Variable. Class III. Max. 6.5. Min. 8.0. Period, irregular. The spectrum is somewhat peculiar. The dark band 4640 to 4750 is very strong and the bright portion from 4340 to 4640 is less intense than in Classes Na or Nb, and has only 0.2, the intensity of band 4750 to 4870.
85444. ν^1 Hydrae.
85503. μ Leonis.
85534. N. G. C. 3031, Messier 81. Spiral nebula?
85541. Probably of Class Bo.
85558. γ Sextantis.
85597. S Leonis Minoris. Variable. Class II. Max. 8.5. Min. 11. Period, 293^d. On a photograph taken December 4, 1904, the spectrum is of Class Mb, having H γ and H δ nearly equal in brightness.
85599. The class is uncertain.
85622. m Velorum.
85675. T Sextantis. Variable. Max. 8.9. Min. 9.6. Period probably short.
85740. Of Class Bo or Oe5.
85795. Read 0,10-, for 0,R.
85931. Line 4077.9 is strong.
86023. The lines are narrow and the class is uncertain. The region of the line K is very indistinct.
86111. X Velorum. Variable. Class III. Max. 9.5. Min. 11.8. Period, irregular.
86167. The spectrum is suspected to be composite. The observation, G5, on I 38203, was rejected. The spectrum is very near the edge of that plate.
86267. Read 0,10-, for 0,R.
86360. ν Leonis. Read 2,10 R, for 2,R.
86440. ϕ Velorum. A typical star of Class B5. See page 7.
86441. The lines are narrow.
- 86456,7. H. D. 86456 precedes 3°, in the same approximate declination.
86461. The star -17° 30'18, pm. magn. 9.9, precedes 1°.5, north 0°.6. The spectrum is of Class K.
86557. The lines are narrow.
86608. V Leonis. Variable. Class II. Max. 8.6. Min. <13.5. Period, 273^d.1. On a photograph taken March 27, 1894, the spectrum is very faint and shows the line H δ to be bright.
86629. η Antliae.
86652. The observation, Ko, on B 13116, residual 10, was rejected.
86655. RR Carinae. Variable. Class III. Max. 8.2. Min. 9.6. Period irregular. On a photograph taken May 5, 1893, the spectrum is of Class Mc.
86663. π Leonis.
86728. The lines are somewhat narrow, and strong lines are present. The line H δ appears to be strong for this class.
86729. Perhaps of Class B8.
86936. SZ Carinae. Variable. Class III. Max. 8.6. Min. 10.1. Period, irregular.
- 87037.8. H. D. 87037 follows 0°.8, north 1°.0. The lines are wide and almost double. Both spectra are probably of Class Ao.
87166. The lines are very hazy.
87373. This star is also S. B. D. -2° 30'48, magn. 8.5.
87504. ν^2 Hydrae.
87524. The star C. P. D. -52° 31'56, magn. 8.7, follows 1°.0, north 1°.5. The spectrum is superposed and appears to be also of Class A.
87643. The line H β is bright.
87737. η Leonis. The lines are very narrow and sharply defined. See H.A. 28, 24, for a description of this spectrum.
87816. R Velorum. Suspected at Cordoba to vary from 6.5 to 7.5 magn. Variability not confirmed by other observers. Line H δ appears strong for this class.
87837. A Leonis. Read 0,10 R, for 0,R.
87877. N. G. C. 3132. The spectrum is superposed on that of H. D. 87892.
87884. The proximity of this star to α Leonis makes the spectrum difficult to classify.
87901. α Leonis. The lines are wide. With H. D. 87884, this is Bu. 5331. P. A. 306°.8, Dist. 176°.73.
87971. μ Chamaeleontis.
87976. The observation, A3, on I 38242, residual 9, was rejected. The spectrum is in poor definition on that plate.
- 88021,2. The spectrum is composite.
88028. — Velorum. Variable. Class III. Max. 9.1. Min. 9.9. Period probably irregular.

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88078. Y Antliae. Variable. Class V. Max. 9.1. Min. 9.9. Period, 3^d.0519.
88161. Strong lines are present, especially 4271 and 4383 to 4385.
88206. Q Velorum.
88213. Perhaps of Class F5.
88230. The spectrum is very peculiar. Lines 4226.9, 4435.8, and 4455.0 are very strong, and other strong lines are present. It resembles the spectrum of 61 Cygni, but is more peculiar. Parallax, 0".17. Proper motion, 1".45, 248°.9.
88262. R Antliae. Suspected of variability at Cordoba but not certainly confirmed.
88284. λ Hydrae.
88366. S Carinae. Variable. Class II. Max. 5.8. Min. 9.0. Period, 148^d.7. On a photograph taken April 23, 1903, the lines H β , H γ , H δ , H ϵ , and H ζ are bright and have the following intensities, 6, 10, 5, 2, and 1. The continuous spectrum does not show any characteristics of Class M, but is rather of Class K. Line 4226.9 is not present, and very few absorption lines are seen. The brightest portion of the spectrum is between H β and H γ . On a photograph taken June 15, 1904, the spectrum is banded, of Class Ma, having H β , H γ , H δ , H ϵ , and H ζ bright, with the following intensities, 1, 10, 12, 2, and 1.
88367. Index Catalogue, 2553. Gaseous nebula.
88415. The spectrum may be intermediate between Classes K5 and Ma.
88517. — Sextantis. Variable. Class III. Max. 9.1. Min. 9.8. Period probably irregular.
- 88605.6. The spectrum is composite. Both stars may be of nearly the same brightness.
88651. U Ursae Majoris. Variable. Class III. Max. 7.0. Min. 8.3. Period, irregular.
88661. The line H β is bright.
88714. The spectrum is suspected to be composite.
88790. The spectrum may be intermediate between Classes K5 and Ma.
- 88821.2. C. DM. — 39° 6223 probably = C. P. D. — 39° 4266 and 4268. The latter star follows 1".6, south 0".1.
88825. Read 1,10, for 1,R.
- 88849.50. Bu. 5356. P. A. 166°.8, Dist. 16".76, magn. 6.1 and 7.0.
88918. SU Carinae. Variable. Class II. Max. 10.0. Min. <15.5. On a photograph taken March 12, 1897, a faint spectrum is visible which is probably of Class Ma, and in which the line H δ is 3 times as bright as H γ .
88923. The spectrum is suspected to be composite.
88946. Z Carinae. Variable. Class II. Max. 10.0. Min. 13.4. Period, 386^d. On a photograph taken May 5, 1893, a very faint spectrum is seen, in which the bright line H δ is 4 times as strong as H γ . The star is C. DM. — 58° 3108, magn. 10.5, and is not contained in the Cape Photographic Durchmusterung.
88955. q Velorum.
88981. M Carinae. Read 0,10 R, for 0,R.
89021. λ Ursae Majoris.
89025. ‡ Leonis. Read 2,10 R, for 2,R.
89080. ω Carinae. The lines are wide.
89234. ST Carinae. Variable. Class V. Max. 9.2. Min. 10.3. Period, 0^d.901652.
89249. The line H β is bright. The spectrum appears otherwise continuous. Perhaps it is of Class B.
89254. ε Sextantis.
89355. N. G. C. 3201. A globular cluster.
89388. q Carinae. The lines H β , H γ , and H δ are strong for Class K5. Read 0,10 R, for 0,R.
89413. A star about 0.3 magn. fainter than H. D. 89413 precedes 0".71, south 26".4. The spectrum is superposed but is not defined. The Durchmusterung number and magnitude probably refer to both objects.
89448. The spectrum is indistinct probably due to its partial superposition on that of H. D. 89447.
- 89484.5. γ Leonis. Bu. 5388. P. A. 116°.1, Dist. 3".74, combined magn. 2.30.
89516. N. G. C. 3211. Planetary nebula.
89571. Read 0,10, for 0,R.
89744. Parallax, 0".114, in Walkey's list, but certainly less than 0".1, according to Schlesinger.
89758. μ Ursae Majoris. Read 0,10 R, for 0,R.
89841. RY Velorum. Variable. Max. 8.0. Min. 10.0. Class and period, unknown.
89845. — Carinae. Variable. Max. 9.8. Min. 10.5. Class and period, unknown.
89890. J Velorum. The lines H β and H γ are variable. On a photograph taken June 2, 1893, they were bright, but on photographs taken in 1895, 1896, 1899, and 1919, they were wholly dark. See H. A. 28, 183, Remark 99.
89920. The star C. DM. — 43° 6191, ptm. magn. 9.8, follows 0".8, south 0".9. The spectrum is superposed but cannot be classified.
- 89974.5. H. D. 89974 precedes 0".5, north 0".3.
89984. The star C. DM. — 30° 8401, ptm. magn. 12.1, precedes 0".6, north 0".7. The photometric magnitude 8.20 applies to the combined light of both stars.
89991. — Carinae. Variable. Max. 9.1. Min. 9.7. Class and period, unknown.
89998. r Velorum.
- 90030.1. H. D. 90030 precedes 1".0, north 0".4. These two stars = C. P. D. — 37° 4115 and 4116.
- 90076.7. The spectrum is composite.
90089. The lines are narrow, and lines of peculiar intensity are probably present.
90177. The line H β is bright. Other lines are very faint.
90187. The spectrum is almost continuous. It may be of Class Oe5.
90255. N. G. C. 3242. Planetary nebula. Ptm. magn. 7.94.
90264. L Carinae.
90315. Probably of Class B0.
90360. Perhaps of Class F5.
90432. μ Hydrae.
90508. The line H δ is strong for this class.
90513. The star +1° 2441, ptm. magn. 9.5, follows 0".9, north 1".0. The spectrum is superposed and is probably also of Class K2.
90519. The spectrum is nearly all superposed on that of H. D. 90520, which follows 0".6, south 1".8.

90589. I Carinae.
 90610. α Antliae.
 90613. C. P. D. $-54^{\circ} 3642 =$ C. D.M. $-54^{\circ} 3491$ and 3492 .
 The latter star follows $1^{\circ}.5$, south $0^{\circ}.1$, C. D.M. magn. 9.4. The spectrum is hazy.
 90707. Perhaps of Class Oe5.
 90772. The lines are narrow, and several are very intense.
 See H.A. 28, 188, Remark 182, for detailed description of the lines. The spectrum resembles that of ϵ Aurigae, H. D. 31964.
 90853. s Carinae. Read $0,10$ R, for $0,2$.
 90877. Perhaps of Class K5. The star $+38^{\circ} 2146$, ptm. magn. 9.8, precedes $2^{\circ}.3$, south $4^{\circ}.6$. The spectrum is partly superposed and appears to be of Class F.
 90882. δ Sextantis. Read $1,10$ R, for $1,2$. This star is also B. D. $-1^{\circ} 2395$.
 90912. YZ Carinae. Variable. Class IV. Max. 9.0. Min. 10.7. Period, $18^d.158$.
 90966. H β is a very narrow bright line superposed on a hazy dark band. H γ and H δ are dark and wide.
 90972. δ Antliae.
 91026.7. H. D. 91026 precedes $0^{\circ}.5$, south $0^{\circ}.3$.
 91039. UX Carinae. Variable. Class IV. Max. 8.1. Min. 9.1. Period, $3^d.6822$. The spectrum changes from F2 at maximum to G5 at minimum. It was classified G5 on a photograph taken May 11, 1909, where the image is very faint and at which time the star must have been near minimum.
 91054. The lines are narrow.
 91110. RT Velorum. Variable. Class II. Max. 10.5. Min. <12.0 . Period, unknown. On a photograph taken March 25, 1908, the faint spectrum is seen, having the line H δ bright.
 91120. On a photograph taken December 16, 1904, the line H β appears to be double.
 91168.9. These spectra are almost completely superposed. H. D. 91168 precedes $0^{\circ}.8$, south $0^{\circ}.4$.
 91172.3. The spectrum is composite.
 91303. The observation, Fo, on B 13780, residual 10, was rejected. The region of the line K is indistinct on that plate.
 91316. ρ Leonis. Line 3805.1 has great intensity. Lines 3982.8 and 3994.9 are slightly stronger than normal. See H.A. 28, 94, Remark 13.
 91321.2. C. D.M. $-31^{\circ} 8319 =$ C. P. D. $-31^{\circ} 3057$ and 3058 . The latter star follows $0^{\circ}.5$, south $0^{\circ}.4$.
 91355.6. s Velorum. Innes $10^h 48$. P. A. $217^{\circ}.9$, Dist. $13^{\circ}.6$, combined magn. 5.60. Both spectra must be similar, since no peculiarity is observed in the combined spectrum.
 91375. K Carinae.
 91442. The spectrum is probably composite. Several solar lines are more intense than in typical spectra of Class A3, and there is a trace of the band G as in spectra of Classes G and K.
 91465. p Carinae. The lines H β and H γ are bright. In the case of H β , a double reversal is seen, a dark line being superposed on the bright line. Both H β and H γ are slightly displaced toward the edge of shorter wave length of the underlying dark bands.
 91504. t Velorum.
 91533. The lines are narrow and the spectrum resembles that of α Cygni.
 91573. Read $0,10$, for $0,2$.
 91593. The star C. P. D. $-54^{\circ} 3795$, magn. 8.0, precedes $1^{\circ}.0$, south $0^{\circ}.4$. The photometric magnitude refers to the combined light of the two stars.
 91595. Y Carinae. Variable. Class IV. Max. 8.1. Min. 8.6. Period, $3^d.6401$.
 91620. — Octantis. Variable. Max. 8.6. Min. 11.0. The period may be long.
 91629. The spectrum has the lines H β and H γ as strong as in Class F8, but the distribution of light resembles that of Class G5. It was classified F8 on B 43205, on which H γ looks especially strong.
 91637. S Sextantis. Variable. Class II. Max. 9.2. Min. 11.7. Period, 257^d .
 91648.9. H. D. 91648 precedes $1^{\circ}.0$, south $1^{\circ}.0$. These two stars are of nearly equal brightness on chart plates. The lines H γ and H δ in the combined spectrum are stronger than in Class K. It is probable that the spectrum of the preceding star is of Class F and that of the following, of Class K.
 91650. The star C. P. D. $-52^{\circ} 3685$, magn. 9.4, follows $5^{\circ}.0$, south $0^{\circ}.6$. The spectrum is partly superposed and is also of Class A.
 91651. The lines are narrow.
 91661. Perhaps of Class F5.
 91745. — Velorum. Variable. Class II. Max. 11. Min. <15 . Period about one year. The spectrum is very faint and may belong to Class R3 or R5.
 91793. U Antliae. Variable. Class III. Max. 8.3. Min. 9.3. Period, irregular.
 91938. C. D.M. $-32^{\circ} 7475 =$ C. P. D. $-32^{\circ} 2923$ and 2924 . The former star precedes $0^{\circ}.0$, north $0^{\circ}.6$, and its photographic magnitude reduced to the International Scale is 10.3.
 91942. r Carinae.
 91943. The star C. P. D. $-57^{\circ} 3500$, magn. 8.4, follows $0^{\circ}.0$, south $1^{\circ}.3$. The spectrum is superposed and is of some division of Class B, since, besides the hydrogen lines, the helium line 4471.6 of this spectrum is identified among the lines of H. D. 91943.
 91958. The lines are narrow.
 92055. U Hydrae. Variable. Class III. Max. 4.5. Min. 6.3. Period, irregular.
 92063. t¹ Carinae.
 92090. RZ Carinae. Variable. Class II. Max. 9.0. Min. <13.2 . Period 272^d . On a photograph taken on April 7, 1902, the spectrum is of Class Mb, having the line H δ 5 times as bright as H γ .
 92122.3. H. D. 92122 follows $1^{\circ}.0$, north $0^{\circ}.3$.
 92139.40. p Velorum. Innes $10^h 59$. P. A. $261^{\circ}.4$, Dist. $0^{\circ}.66$, magn. 4.5 and 5.0. The spectrum is composite. The combined spectrum has the appearance of Class G, with the hydrogen lines as strong as in Class A5, and line K slightly fainter than H. The spectrum of the fainter component is not certainly defined, but must be of earlier type than that of the brighter component.

92168. The spectrum is very peculiar. The hydrogen lines, $H\beta$, $H\gamma$, and $H\delta$ are as strong as in Class F5. From this characteristic, it was classified F5p on I 37582. The line K and the end of shorter wave length resemble spectra of Class Ko. Strong metallic lines are present, somewhat as in spectra having narrow lines. The width of the lines, however, appears to be normal.
92207. The lines are narrow and the spectrum resembles that of α Cygni.
92214. ϕ Hydrae.
92245. The lines are wide.
92252. The lines are narrow.
92305. γ Chamaeleontis.
92314. The star C. P. D. $-59^\circ 2355$, magn. 9.8, precedes $0^\circ.5$, north $0^\circ.1$. The photometric magnitude may refer to the combined light of these two stars.
92380. The star C. P. D. $-53^\circ 4028$, magn. 9.5, follows $1^\circ.0$, south $1^\circ.2$. The spectrum is partly superposed and appears to be of Class A.
- 92397.8. t^1 Carinae. Innes $10^h 62$. P. A. $19^\circ.0$, Dist. $15^\circ.2$, magn. 4.7 and 7.5. The companion is A. G. C. 14560. On photographs taken with short dispersion, which show the violet end clearly, the spectrum is of the composite type. The line K is barely seen and the hydrogen lines $H\gamma$, $H\delta$, $H\epsilon$, etc., are as strong as in Class A stars.
92449. x Velorum. Line 4077.9 is 1.5 as strong as in the spectrum of α Aurigae. Read 0,10 R, for 0,R.
92451. The lines are narrow.
92464. The helium line 4121.0 appears to be less intense than in the spectrum of α Pavonis, the typical star.
92562. C. DM. $-25^\circ 8179$ = C. P. D. $-25^\circ 4619$ and 4620. The former star precedes $0^\circ.5$, north $0^\circ.2$. The magnitudes in the C. P. D. are 9.6 and 9.6. The combined magnitude reduced to the International Scale is given in Column 6.
92608. The star C. P. D. $-59^\circ 2408$, magn. 8.8, precedes $0^\circ.0$, south $1^\circ.5$. The spectrum is partly superposed and appears to be of Class A.
92626. The spectrum is peculiar and resembles that of S. D. $-19^\circ 3634$, $13^h 1^m.1$, $-19^\circ 31'$, described on page 10, as intermediate between Classes K and Ro.
92658. This star is C. P. D. $-41^\circ 4775$, and is not contained in the Cordoba Durchmusterung.
92664. The lines 4128.1 and 4131.1 are strong. The observation B3, residual 7, on B 38834, is rejected. The spectrum is too dense on that plate which was taken with short dispersion.
92668. The lines 4077.9, 4128.1, and 4131.1 are fairly well marked.
- 92692.3. The spectrum is composite.
92704. The lines appear to be narrow.
92719. Line $H\delta$ is strong, and 4077.9 is well marked. Read 0,10 R, for 0,R.
92740. The lines H and K are dark and narrow. Line 4059 is very bright. This line is interesting on account of its possible identity with the line in the spectra of Novae, which shows such remarkable variations. See H. A. 28, 175, Remarks 9 and 10 for more detailed description of the lines in this spectrum.
92763. R Ursae Majoris. Variable. Class II. Max. 7.0. Min. 13.5. Period, 302^d.1. On photographs taken February 22, 1906, and February 6, 1907, the spectrum is of Class Mb, having $H\gamma$ and $H\delta$ bright. The line $H\delta$ was equal to $H\gamma$ on the first date and 7 times as bright as $H\gamma$ on the second date.
92839. Probably variable with a range of 0.45 magn.
92854. The lines are narrow.
92855. The spectrum was classified G5 in H. A. 56, 87, but it is faint on plates taken with the 11-inch Draper Telescope.
92894. The star C. P. D. $-58^\circ 2565$, magn. 8.8, precedes $3^\circ.0$, south $1^\circ.5$. The spectrum is superposed and makes that of H. D. 92894 very uncertain.
92909. The star C. P. D. $-58^\circ 2573$, magn. 8.8, follows $5^\circ.0$, north $0^\circ.8$. The spectrum is partly superposed and appears to be of a later division of Class B.
92910. The lines are narrow.
92922. The star C. DM. $-26^\circ 8099$, ptm. magn. 8.2, follows $2^\circ.5$, north $1^\circ.0$. The spectrum is superposed and makes the classification of H. D. 92922 rather difficult.
92930. The star $-5^\circ 3131$, ptm. magn. 9.6, precedes $1^\circ.4$, north $0^\circ.9$. The spectrum is superposed and is probably also of Class G.
92964. The lines are narrow.
93003. The helium line 4121.0 is fainter than in α Pavonis, the typical star.
93030. θ Carinae. Line 4685.9 is as strong as in Class Oe5. Line 4649.3 is very faint, and less intense than 4641.9. The lines are somewhat narrow. See also H. A. 28, 176, Remark 23.
93070. w Carinae.
- 93128.9. On some photographs there is an appearance of bright lines in the spectrum of one of these stars.
93131. See H. D. 92740. These two spectra are alike.
93146. The star C. P. D. $-59^\circ 2554$, magn. 8.7, precedes $0^\circ.0$, south $0^\circ.9$. The spectrum is superposed and appears to be also of Class B.
- 93160.1. These two stars are A. G. C. 14689, magn. $8\frac{1}{2}$ and 14690, magn. $8\frac{1}{2}$. The former precedes $1^\circ.7$, north $4^\circ.8$. In the spectrum of the following star, the lines H and K are narrow and K is of about the intensity as in Class A3. The spectrum may, however, contain helium lines. The spectrum of the preceding component is of some division of Class B.
93190. Probably of Class Oe5 or Bo.
93203. VY Carinae. Variable. Class IV. Max. 7.8. Min. 9.2. Period, 18^d.984.
- 93204.5. H. D. 93204 precedes $1^\circ.5$, south $0^\circ.3$. Both spectra are probably of Class B. Apparent traces of bright lines are seen.
93206. The line K appears stronger than normal.
93237. The lines 4128.1 and 4131.1 are stronger than normal. Read 3,10 R, for 3,R.
93239. Perhaps of Class F5.
93247. SV Velorum. Variable. Class IV. Max. 8.8. Min. 10.8. Period, 14^d.097.
93250. Perhaps of Class B2. The lines are faint and difficult to identify, owing to nebulosity being superposed.

93251. The spectrum is suspected to be composite. The line K appears to be too faint for Class F₂.
93257. η Leonis. On I 375504, the spectrum was recorded as of Class A₃, which is entirely wrong and appears to be simply a repetition of the Class of H. D. 92941, which was observed just before this star.
93291. κ Leonis.
93308. η Carinae. Nova Carinae, No. 1. The star was of the fourth magnitude at the time of the first recorded observation in 1677. In 1751, it was of the second magnitude, and from 1837 to 1854, it was about magn. 0.3. In 1869, it had declined to the seventh magnitude, and has fluctuated between the seventh and eighth magnitudes since that time. The spectrum is characterized by numerous bright lines, and has changed, as described in H.A. 28, 175, Remark 2, and H.A. 76, 37.
- 93339.40. H. D. 93339 precedes 3°.5, south 0°.3.
93343. The stars C. P. D. — 59° 2635, magn. 9.1, and — 59° 2636, magn. 9.1, follow 0°.5, 0°.5, north 0°.2, and 0°.7, respectively. The spectra of both are probably also of Class B.
93381. The star C. DM. — 27° 7671, ptm. magn. 9.5, precedes 1°.0, south 2°.0. The spectrum is superposed and is of Class A.
93397. β^1 Hydrae.
93417. The star C. P. D. — 53° 4123, magn. 9.2, follows 0°.5, south 4°.8. The spectrum is superposed and is probably of Class B.
93444. SX Carinae. Variable. Max. 8.3. Min. 10.0. Other facts concerning the variation are unknown.
93455. The star C. P. D. — 58° 2689, magn. 9.4, precedes 2°.0, south 0°.1. The lines H β , H γ , and H δ of this star are superposed on the spectrum of H. D. 93455.
93497. μ Velorum.
93503. The lines are narrow.
93504. The lines are narrow.
93506. TZ Carinae. Variable. Class III. Max. 8.4. Min. 9.6. Period probably irregular.
93517. Probably of Class A₀. The region from H δ to the end of shorter wave length is superposed on the spectrum of H. D. 93540.
93537. The star C. P. D. — 58° 2697, magn. 9.2, precedes 1°.5, south 4°.7. The spectrum is partly superposed and appears to be of Class B.
93561. Perhaps of Class B₂.
93619. The lines are narrow. Line 4077.9 is stronger than normal.
93632. The star C. P. D. — 59° 2700, magn. 9.6, follows 2°.0, south 0°.3. The star C. P. D. — 59° 2702, magn. 9.3, follows 3°.5, north 0°.2. The spectra of these two stars are superposed on that of H. D. 93632 and give it a hazy, indistinct appearance.
93702. ι Leonis.
93737. The lines are narrow.
- 93753.4. The spectrum is composite.
93779. δ^1 Chamaeleontis.
93796. The star C. P. D. — 62° 1760, magn. 9.2, follows 0°.5, south 0°.1. The spectrum is superposed and is probably of the same, or nearly the same, class.
93813. ν Hydrae.
93843. The line H δ is suspected to be bright.
93844. The lines are narrow.
93845. δ^2 Chamaeleontis.
93883. The star C. DM. — 35° 6767, ptm. magn. 11.0, precedes 2°.0, south 0°.5. The spectrum is superposed and the lines H γ and H δ are seen among those of H. D. 93883.
93911. The lines are narrow.
93923. The lines are narrow.
93946. Lines 4077.9, 4128.1, and 4131.1 are stronger than normal.
94008. The spectrum is suspected to be composite.
94018. C. DM. — 40° 6337 = C. P. D. — 40° 4775 and 4776. The latter star follows 0°.0, south 0°.2. It is about 0.4 magn. fainter than — 40° 4775 on chart plates.
94054. The lines are narrow.
94103. RS Hydrae. Variable. Class II. Max. 8.6. Min. 12.0. Period, 338^d. On a photograph taken April 13, 1896, the faint spectrum, which is probably of Class M, has the line H δ bright.
94175. The observation, Go, on I 37554, residual 10, was rejected. The spectrum is too poor on that plate.
94259. WW Carinae. Variable. Class IV. Max. 9.6. Min. 10.7. Period, 4^d.676.
94334. ω Ursae Majoris. Read 0, 10 R, for 0, R.
94362. W Leonis. Variable. Class II. Max. 9. Min. < 14. Period, 388^d. On a photograph taken April 1, 1905, the spectrum is of Class Mb, having the line H δ 6 times as bright as H γ .
94367. The lines are narrow and the spectrum resembles that of β Orionis.
94388. β^2 Hydrae.
94402. ρ^1 Leonis.
94406. SS Velorum. Variable. Class III. Max. 10.0. Min. 10.9. Period, irregular. This star is C. DM. — 52° 4032, magn. 10.2, and is not contained in the Cape Photographic Durchmusterung.
94412. TY Carinae. Variable. Max. 9.8. Min. 11.5. Class and period, unknown.
94435. A star about 0.2 magn. fainter than H. D. 94435 follows 4°, north 0°.2. The spectrum is superposed and appears to be of Class F or F₅.
94464. The star C. P. D. — 57° 3928, magn. 8.8, precedes 2°.5, south 0°.5. The spectrum is superposed and is probably of Class A.
94507. RU Velorum. Variable. Class II. Max. 10.7. Min. 15.3. On photographs taken June 28, and July 1, 1907, the spectrum is of Class Ma, having H δ 7 times as bright as H γ .
94510. ι Carinae. The line 4226.9 appears to be slightly fainter than in the typical star. Read 5, 10 R, for 5, R.
- 94530.1. The spectrum is composite.
- 94601.2. Bu. 5603. P. A. 107°.5, Dist. 6°.38, combined magn. 4.32. The two spectra are probably alike or nearly alike, since no peculiarity is seen in the combined spectrum.
94613. — Carinae. Variable. Max. 9.0. Min. 9.7. Class and period, unknown.

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94650. Innes $10^{\circ} 83$. P. A. $281^{\circ} 2$, Dist. $1^{\circ} 21$, magn. 6.5 and 7.3. The lines are broad. The photometric and photographic magnitudes and class of spectrum refer to the combined light. It is probable, however, that both spectra are similar, if not exactly alike.
94660. The lines 4128.1 and 4131.1 are the strongest except those of hydrogen.
94693. This star is C. P. D. $-34^{\circ} 4388$. The star $-34^{\circ} 4389$, magn. 9.0, follows $0^{\circ} 0$, south $0^{\circ} 6$. The photometric magnitude refers to the combined light of these two stars.
94713. This star is C. DM. $-53^{\circ} 3755$, magn. 10.5, and is not contained in the Cape Photographic Durchmusterung.
94727. The star $+53^{\circ} 1446$, ptm. magn. 9.4, follows $0^{\circ} 6$, north $2^{\circ} 4$. The spectrum is superposed and appears to be also of Class K.
94776. T Carinae. Suspected of variability at Cordoba, but not yet confirmed. The line 4226.9 is 0.8 as intense as in α Phoenicis, the typical star.
94777. WZ Carinae. Variable. Class IV. Max. 8.3. Min. 10.2. Period, $21^d 9$.
94878. The lines $H\beta$, $H\gamma$, $H\delta$, and $H\epsilon$ are bright, and the spectrum belongs to the P Cygni class. It appears to be like that of H. D. 94910.
94890. ι Antliae. Read $0, 10$ R, for $0, R$.
94910. The spectrum resembles that of P Cygni, when taken with the same dispersion. The lines $H\beta$, 4471.6 , $H\gamma$, and $H\delta$ are strong bright lines having narrow absorption lines on the edge of shorter wave length. Other lines of similar nature, but fainter, are seen, such as 4026 , and 4172 . Faint absorption lines are also visible.
95013. This star is C. DM. $-52^{\circ} 4068$, magn. 10.5, and is not contained in the Cape Photographic Durchmusterung.
95109. U Carinae. Variable. Class IV. Max. 6.8. Min. 8.0. Period, $38^d 7397$. The lines are narrow. The spectrum probably changes with phase.
95128. The spectrum is somewhat peculiar. The lines of hydrogen are strong, yet in several other respects, the class resembles G5. Read $0, 10$ R, for $0, R$.
95142. The star C. P. D. $-68^{\circ} 1379$, magn. 9.2, follows $7^{\circ} 0$, north $5^{\circ} 1$. The spectrum is partly superposed and is probably of Class K.
- 95235.6. The spectrum is composite.
95272. α Crateris.
95301. The star C. P. D. $-52^{\circ} 4082$, magn. 9.5, follows $0^{\circ} 5$, south $5^{\circ} 3$. The spectrum is superposed and is of Class A.
95344. d Leonis.
95356. The lines are broad.
95370. i Velorum. Read $0, 10$ R, for $0, R$.
95382. c Leonis.
95384. R Crateris. Variable. Range small. Period probably irregular.
95390. The lines are narrow.
95405. The spectrum has a wide band of absorption in the region of 4227 , and thus resembles Class R. It may be intermediate between Classes K and R, as described on page 10.
95418. β Ursae Majoris.
95487. The spectrum may be of Class F5.
95536. The line K is strong for this class.
95541. Index Catalogue No. 2621. Gaseous nebula.
95578. p² Leonis. Read $0, 10$ R, for $0, R$.
95589. The line $H\beta$ is suspected to be bright.
95608. b Leonis. Read $0, 10$ R, for $0, R$.
95649. Perhaps of Class F5.
95689. α Ursae Majoris.
95692. The star $+23^{\circ} 2300$, ptm. magn. 9.6, precedes $2^{\circ} 7$, south $6^{\circ} 2$. The spectrum is superposed and is of Class K.
95707. The lines are narrow.
95735. Parallax, $0^{\circ} 40$. Proper motion, $4^{\circ} 71$, $186^{\circ} 4$.
95741. The star $-2^{\circ} 3274$, ptm. magn. 10.2, follows $1^{\circ} 5$, north $0^{\circ} 2$. The spectrum is superposed and appears to be also of Class G5.
95821. Nova Velorum. The first spectrum of this new star was obtained 548 days after its appearance on a chart photograph, and was that of a gaseous nebula. See H.A. 76, 37.
95849. p² Leonis.
95853. This star is C. P. $-21^{\circ} 4846$, magn. 9.1, and is not contained in the Southern Bonn Durchmusterung.
95880. The lines appear to be narrow.
- 95943.4. H. D. 95943 precedes $0^{\circ} 0$, north $0^{\circ} 4$. The two spectra may be similar.
96040. The lines appear to be narrow.
96042. $H\gamma$ and $H\delta$ are suspected to be bright. The spectrum may resemble those of the P Cygni Class.
96097. χ Leonis.
- 96118.9. The spectrum is composite.
- 96120.1. H. D. 96120 precedes $1^{\circ} 0$, north $0^{\circ} 2$. The lines are double in the combined spectrum.
96124. η Octantis.
96202. χ^1 Hydrae.
96228. The star C. P. D. $-59^{\circ} 3015$, magn. 9.4, follows $4^{\circ} 0$, south $0^{\circ} 4$, spectrum probably of Class K5. The photometric magnitude refers to the combined light of these two stars.
96229. On page 200, column 9, the letter R should be transferred to H. D. 96228.
96308. Probably of Class B0.
96314. χ^2 Hydrae.
96390. The star $+76^{\circ} 415$, ptm. magn. 9.0, precedes $10^{\circ} 0$, south $1^{\circ} 9$. The spectrum is partly superposed. It is not well defined but is probably of Class G0 or G5.
96430. The class is uncertain and may be of some division of B. The spectra of several adjacent stars are partly superposed.
96436. p⁴ Leonis.
96446. The spectrum contains a very strong dark line at the approximate wave length 3869. No other spectrum has been found in which this line is so strong. The helium lines are also very strong.
96566. z Carinae.
96616. The strontium lines 4077.9 and 4215.7 are the most intense lines except those of hydrogen. The lines 4128.1 and 4131.1 are well marked. The spectrum resembles that of ι Phoenicis, described in H.A. 28, 187, Remark 159.

96650. RW Centauri. Variable. Class III. Max. 10.2. Min. 11.2. Period, irregular. This star is C. DM. $-54^{\circ} 3975$, and is not contained in the Cape Photographic Durchmusterung.
96830. RS, Nova Carinae, No. 2. The first spectrum was taken on April 14, 1895, six days after the appearance of the star on a chart plate. The spectrum was of the Nova form, having bright and dark hydrogen lines. On June 15, 1895, bands 4363 and 4650 were the strongest. See H.A. 76, 37.
96833. ψ Ursae Majoris. The lines are indistinct. The class may be Oe5.
96918. α Carinae. The lines are very narrow and the spectrum resembles that of δ Canis Majoris, H. D. 54605.
96919. The lines 4128.1 and 4131.1 are strong. Line K is strong, and the spectrum appears to resemble that of α Doradus, H. D. 29305, described in H.A. 28, 186, Remark 145.
97082. $-$ Carinae. Variable. Max. 7. Min. 8. Class and period, unknown. The class of spectrum indicates variability in short period. The lines are somewhat narrow and the intensities agree in some respects with those in the spectrum of δ Canis Majoris, H. D. 54605.
97171. The star C. P. D. $-51^{\circ} 5404$, magn. 10.2, follows $2^{\circ}.4$, south $1^{\circ}.0$. The spectrum is superposed and is also of Class A.
97173. The star C. P. D. $-58^{\circ} 3232$, magn. 8.4, follows $0^{\circ}.5$, south $1^{\circ}.5$. The spectrum is partly superposed and is also of Class A.
- 97206.7 H. D. 97206 precedes $3^{\circ}.0$, south $0^{\circ}.4$. Both spectra appear to be of Class B.
97264. SU Centauri. Variable. Class V. Max. 8.7. Min. 9.6. Period, $5^d.35442$.
97277. β Crateris.
97284. The star C. P. D. $-60^{\circ} 2595$ precedes $8^{\circ}.0$, south $0^{\circ}.6$. The photometric magnitude of the combined light of these two stars given in H.A. 54, 126, is 8.79.
97334. The lines are somewhat narrow, and strong metallic lines are present. The line H δ is strong for Class G0.
- 97336.7. The spectrum is composite.
97375. The star $-20^{\circ} 3370$, ptm. magn. 9.3, precedes $0^{\circ}.8$, north $1^{\circ}.2$. The spectrum is superposed and appears to be also of Class G.
- 97399.400. H. D. 97399 follows $1^{\circ}.3$, north $1^{\circ}.9$. The spectra are almost completely superposed. Both are probably of or near Class B0.
97409. The lines appear to be very broad.
97534. γ Carinae. The lines are very narrow and the spectrum resembles that of ϵ Aurigae, H. D. 31964. See H.A. 28, 188, Remark 182.
97584. The star $+74^{\circ} 456$ a, ptm. magn. 8.2, follows 1° , in the same approximate declination. The spectrum is partly superposed and is probably also of Class K5.
97585. p^6 Leonis. Read $0, 10$ R, for $0, 2$.
97603. δ Leonis.
97633. θ Leonis.
97689. The lines 4077.9, 4128.1, and 4131.1 are well marked, but not more than 0.4 as strong as the line K.
97907. n Leonis.
97920. Perhaps of Class F5.
97950. The spectrum appears to be nearly continuous with a bright band at about 4686.
98014. SY Carinae. Variable. Class III. Max. 8.8. Min. 10.0. Period probably irregular.
- 98027.8. The spectrum is composite.
98058. ϕ Leonis.
98074. The star C. P. D. $-61^{\circ} 2157$, magn. 9.7, follows $0^{\circ}.0$, south $0^{\circ}.3$. The spectrum is superposed and appears to be of Class G or K.
98217. The spectrum resembles that of 61 Cygni in the intensity of lines between H β and H γ .
- 98230.1. ξ Ursae Majoris. Bu. 5734. P. A. $238^{\circ}.7$, Dist. $1^{\circ}.75$, combined magnitude 3.86. Parallax, $0^{\circ}.15$.
98262. ν Ursae Majoris. Line 4226.9 is somewhat stronger than in α Bootis.
98421. The lines appear double. The star C. P. D. $-60^{\circ} 2798$, magn. 9.4, precedes $1^{\circ}.5$, south $0^{\circ}.2$. The spectrum is superposed and is probably also of Class A, which causes the double appearance of the lines.
98430. δ Crateris.
98466. A star follows 2° , south $1^{\circ}.1$. The spectrum is superposed and makes that of H. D. 98466 uncertain.
98518. The class is uncertain, due to the partial superposition of the spectrum on that of H. D. 98517.
98664. σ Leonis. The helium line 4026.3 and a trace of 4471.6 are present as in Class B9.
98678. RS Centauri. Variable. Class II. Max. 9.2. Min. <12.9 . Period, 166 d . On a photograph taken November 19, 1895, the spectrum is of Class Ma, having H γ and H δ equally bright.
98718. π Centauri. The lines are broad.
- 98744.5. H. D. 98745 follows $0^{\circ}.5$, south $0^{\circ}.4$.
98767. $-$ Centauri. Variable. Class III. Max. 9.7. Min. 10.4. Period, irregular. This star is C. DM. $-55^{\circ} 3979$, magn. $10\frac{1}{2}$, and is not contained in the Cape Photographic Durchmusterung.
98898. Perhaps of Class B8.
98923. The spectrum is suspected to be composite.
98991. λ Crateris.
99028. ϵ Leonis.
- 99049.50. The spectrum is composite.
99059. This star is C. DM. $-22^{\circ} 8867$, and is not contained in the Southern Bonn Durchmusterung.
- 99103.4. Innes 11 a 19. P. A. $291^{\circ}.8$, Dist. $2^{\circ}.62$, combined magnitude, 5.34.
99145. The star C. DM. $-57^{\circ} 3904$, ptm. magn. 7.2, follows $0^{\circ}.4$, south $0^{\circ}.2$. No trace is seen of its spectrum. It is probably also of Class K5.
99167. ϵ Crateris.
99211. γ Crateris.
99257. This star is C. DM. $-22^{\circ} 8883$, and is not contained in the Southern Bonn Durchmusterung.
99278. The class is uncertain. Lines are seen which belong to the spectra of adjacent faint stars.
99364. C. P. D. $-24^{\circ} 4666$. The star C. P. D. $-24^{\circ} 4667$, follows $0^{\circ}.5$, south $0^{\circ}.5$. This star has the same magnitude in the Cape Photographic Durchmusterung as H. D. 99364, but it is about 0.4 magn. fainter on chart plates.

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99368. The star C. DM. $-49^{\circ} 6150$, ptm. magn. 10.2, precedes $1^{\circ}.9$, south $4'.7$. The spectrum is partly superposed and is of Class A.
99390. The spectrum is suspected to be composite, as lines are seen which appear to belong to a spectrum of Class G.
99416. The class is uncertain, due to the superposition of the spectra of adjacent stars.
99564. κ Crateris.
99573. The star C. DM. $-50^{\circ} 6012$, ptm. magn. 9.4, precedes $2^{\circ}.2$, north $1'.5$. The magnitude of this star combined with H. D. 99573 is given in H.A. 54, 128, as 8.39.
- 99574.5. The spectrum is composite.
99592. ST Ursae Majoris. Variable. Class IV? Max. 8.2. Min. 9.0. Period, $8^d.8$?
99604. The star C. P. D. $-54^{\circ} 4541$, magn. 9.6, precedes $2^{\circ}.0$, south $0'.6$. The spectrum is superposed and appears to be also of Class Ko. The photometric magnitude of these two stars, as given in H. A. 54, 128, is 9.24.
99612. Perhaps of Class A5.
99640. The star C. DM. $-45^{\circ} 7008$, ptm. magn. 10.2, precedes $0^{\circ}.6$, north $0'.7$. The spectrum is superposed and appears to be also of Class K.
99648. τ Leonis.
99842. One bright band is seen, which appears to be 5007, but it is uncertain.
99944. The line K is strong for this class.
99998. ϵ Leonis.
100029. λ Draconis. The observation K2, on I 37554, residual 8, was rejected. The spectrum is too dense on photographs taken with the 8-inch Telescope which have an hour's exposure.
100060. This star is C. P. D. $-20^{\circ} 5199$. C. P. D. $-20^{\circ} 5200$, precedes $1^{\circ}.0$, north $0'.4$. The latter is 0.8 magn. fainter than H. D. 100060 on chart plates, although both have magn. 9.2 in the Cape Photographic Durchmusterung. A few lines are seen belonging to the fainter spectrum but it cannot be classified.
100198. The lines are narrow and the spectrum resembles that of α Cygni.
100261. α^1 Centauri. The lines are narrow and the spectrum resembles that of δ Canis Majoris.
100262. α^2 Centauri. The lines are narrow and the spectrum resembles that of α Cygni.
- 100273.4. H. D. 100273 precedes $1^{\circ}.1$, north $0'.2$. The lines are hazy and both spectra may be of Class F5.
- 100286.7. N Hydrae. Bu. 5820. P. A. $210^{\circ}.0$, Dist. $9''.00$, combined magnitude 5.07.
100336. $-$ Muscae. Variable. Class III. Max. 9.5. Min. 10.5. The spectrum is very peculiar. Four bright lines are seen, three of which are H β , H γ , and H δ and the fourth appears to be the band 4650, present in spectra of Class O. The spectrum resembles that of 232848, Z Andromedae and also several new stars at late stages of their history. The light curve of Z Andromedae, given in H. C. 168, resembles that of new stars in having sudden outbursts in light.
100407. ξ Hydrae.
100429. The star C. P. D. $-60^{\circ} 3043$, magn. 9.5, follows $2^{\circ}.0$, north $0'.6$. The spectrum is superposed and is probably also of Class K.
100623. Parallax, $0''.238$ in Walkey's list. This value is considered by Schlesinger to be "exceedingly dubious." Proper motion, $1''.08$, $321^{\circ}.0$.
100673. A Centauri.
100698. The spectrum is very faint except between 4227 and H ϵ . In this respect it resembles the spectra of several variable stars.
100710. The spectrum is suspected to be composite and to have a fainter spectrum of Class G superposed.
100733. C¹ Centauri.
- 100792.3. H. D. 100792 precedes $3^{\circ}.5$, in same declination. The two spectra are probably similar.
100825. C² Centauri.
100826. The lines are narrow and the spectrum resembles that of η Leonis, which is described in H.A. 28, 24,
100841. λ Centauri. A typical star of Class B9. See page 7.
100889. θ Crateris.
100920. ν Leonis.
100971. SU Draconis. Variable. Class IV. Max. 9.0. Min. 9.7. Period, $0^d.3978$.
100976. This star is C. P. D. $-26^{\circ} 4551$, and is not contained in the Cordoba Durchmusterung.
101067. C³ Centauri. Read 2, 10 R, for 2, R.
101132. π Chamaeleontis.
101153. ω Virginis.
101198. ι Crateris.
101221. The star C. P. D. $-59^{\circ} 3666$, magn. 8.9, follows $0^{\circ}.0$, north $1'.3$. The spectrum is superposed and is probably also of Class B9.
- 101310.11. The spectrum is composite.
- 101379.80. Innes 11^b 42. Comes = 11.3 magn. The spectrum is composite. The bright star must have a close companion of nearly equal brightness.
101414. RR Muscae. Variable. Class III. Max. 8.6. Min. 10.2. Period, irregular. This star is A. G. C. 15946, magn. 8.5, and is not contained in the Cape or Cordoba Durchmusterungs.
101431. σ Hydrae.
101501. The lines are narrow. Line 4226.9 and several others have strong intensity.
101548. The star $+59^{\circ} 1396$, ptm. magn. 9.2, precedes $0^{\circ}.6$, north $0'.5$. The spectrum is superposed and makes that of H. D. 101548 indistinct.
101570. The hydrogen lines are as strong as in Class Go, but in some respects, especially in the distribution of light, the spectrum resembles Class Ko.
101602. UZ Centauri. Variable. Class IV. Max. 8.7. Min. 9.5. Period, $3^d.3345$.
101605. RU Ursae Majoris. Variable. Class II. Max. 8.5. Min. <14.0 . On a photograph taken March 27, 1900, a faint spectrum is seen, which is probably of Class Ma, and in which the line H γ is twice as bright as H δ .
101650. This star is C. DM. $-22^{\circ} 9062$, and is not contained in the Southern Bonn Durchmusterung.
101947. The lines are narrow and the spectrum resembles that of δ Canis Majoris.

101964. The photographic magn. 10.7, is derived from the magnitude 9.8 in the Cape Photographic Durchmusterung which appears to be wrong. On 3 chart plates examined, this star is brighter than C. P. D. $-61^{\circ} 2571$, H. D. 102009, whose magn. is 8.3.
- 101993.4. H. D. 101993 precedes $1^{\circ}.5$, in the same declination.
102070. ζ Crateris.
102124. ξ Virginis.
102131. The star $+16^{\circ} 2291$, ptm. magn. 8.9, follows $2^{\circ}.3$, north $5^{\circ}.3$. The spectrum is partly superposed and appears to be of Class G.
- 102171.2. The spectrum is composite.
102212. ν Virginis.
102224. χ Ursae Majoris.
102248. The star C. P. D. $-60^{\circ} 3315$, magn. 8.3, follows $1^{\circ}.5$, south $1^{\circ}.0$. The spectrum is superposed and appears to be also of Class B.
102249. λ Muscae.
- 102319.20. The spectrum is composite.
102334. The line K is strong for this Class. The lines are probably narrow.
102350. The spectrum is somewhat peculiar in combining characteristics of Classes Go and Ko. The hydrogen lines are as strong as in Class Go, but some lines resemble those of Class Ko in intensity.
102365. Proper motion, $1^{\circ}.58$, $284^{\circ}.3$.
102510. A¹ Virginis. Read 0, 10 R, for 0, R.
102552. SV Centauri. Variable. Class V. Max. 8.80. Min. 9.8. Period, $1^{\circ}.66117$.
102584. μ Muscae.
102590. The spectrum is suspected to be composite. Bu. 5926. P. A. $314^{\circ}.6$, Dist. $0^{\circ}.95$, magns. 6.8 and 11.0.
102647. β Leonis.
102660. Lines 4077.9, 4128.1, and 4131.1 are strong.
102681. X Centauri. Variable. Class II. Max. 7.3. Min. 13.0. Period, $313^{\circ}.9$. On a photograph taken May 21, 1895, the spectrum is of Class Ma, having the line H δ 1.5 as bright as H γ .
102721. The lines are broad.
102776. j Centauri. The lines are broad.
102854. N. G. C. 3918. Gaseous nebula.
102870. β Virginis. Parallax, $0^{\circ}.10$. A typical star of Class F8. See page 8.
102878. The lines are narrow, and the spectrum is like that of a Cygni.
- 102942.3. The spectrum is composite. The spectrum of the brighter component has narrow lines and the intensities bear some resemblance to those in the spectrum of δ Canis Majoris.
102946. The spectrum is slightly peculiar in the intensity of some lines. A strong absorption line is present at the approximate wave length 4200, and appears to be situated on a bright band. Line 4226.9 is very strong. H γ is suspected to be bright.
102964. B Centauri.
102997. Bright lines are suspected to be present.
- 103046.7. H. D. 103046 precedes $1^{\circ}.5$, south $0^{\circ}.9$. The two classes of spectra are very clearly defined. Chart plates show the two stars to be equally bright.
103095. Groombridge 1830. Proper motion, $7^{\circ}.06$, $145^{\circ}.3$. A strong line is present at 4383. It may be a blend of 4383 and 4385.
103104. Perhaps of Class B8.
103137. — Muscae. Variable. Max. 9.4. Min. 10.3. Class and period, unknown. The class of spectrum indicates variability in short period.
103154. S Crateris. Variable. Class III. Max. 8.2. Min. 9.2. On photographs taken April 1, 1905 and January 29, 1906, the spectrum is of Class Mc, and the line H δ is suspected to be slightly bright.
103192. β Hydrae.
103287. γ Ursae Majoris.
103354. Line 4077.9 is strong.
103445. The observation, F5, on B 13466, residual 10, was rejected. The image is very faint on that plate.
103484. A² Virginis.
103513. W Centauri. Variable. Class II. Max. 8.6. Min. 13.1. Period, $204^{\circ}.3$. On a photograph taken June 14, 1895, the spectrum is of Class Mb, having H γ and H δ equally bright.
103516. The lines are narrow and the spectrum resembles that of a Cygni.
103578. o Leonis.
103632. η Crateris.
103681. Z Ursae Majoris. Variable. Class II. Min. 7.2. Max. 8.7. Period appears to be generally irregular but sometimes about 120° . On a photograph taken March 13, 1904, the spectrum is of Class Mc, having H δ 3 times as bright as H γ .
103856. The spectrum is suspected to be composite. It was classified F2 on B 19003.
103877. Lines 4077.9, 4128.1, and 4131.1 are stronger than normal.
103885. The spectrum is probably composite. The line K appears to be too faint for Class F2. A spectrum of Class A may be superposed.
103932. Proper motion, $1^{\circ}.21$, $234^{\circ}.8$.
104010. The star C. P. D. $-57^{\circ} 5144$, magn. 9.3, precedes $4^{\circ}.0$, south $0^{\circ}.2$. The spectrum is also of Class K.
104035. The lines are narrow and the intensities resemble those in the spectrum of a Cygni.
104041. The star C. DM. $-35^{\circ} 7583$, ptm. magn. 10.9, precedes $0^{\circ}.3$, south $2^{\circ}.0$. The spectrum is superposed and makes that of H. D. 104041 very indistinct.
- 104107.8. H. D. 104107 precedes $0^{\circ}.0$, south $0^{\circ}.2$. Both spectra are probably of Class K.
104141. The star C. DM. $-50^{\circ} 6557$, ptm. magn. 9.4, follows $4^{\circ}.4$, south $0^{\circ}.3$. The spectrum is superposed and is of Class A.
104174. e Chamaeleontis.
104181. b Virginis. Read 0, 10 R, for 0, R.
104202. This is the brightest component of Bu. 5990. The fainter component is $+71^{\circ} 595$, which precedes 4° , north $0^{\circ}.5$, ptm. magn. 8.04. This spectrum was looked for on several plates taken with short dispersion, and, although faint, it appears to be of Class K. Chart plates show that $+71^{\circ} 595$ is at least 1.5 magn. fainter than $+71^{\circ} 596$, which confirms the spectrum of Class K.

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| <p>104268. A line at about 4383 is very strong.</p> <p>104294. This star is C. P. D. $-19^{\circ}5004$, and is not contained in the Southern Bonn Durchmusterung.</p> <p>104321. π Virginis.</p> <p>104408.9. H. D. 104408 precedes $1^{\circ}.0$, north $1^{\circ}.0$. The separation of the two spectra is difficult, but the spectrum of Class K seems to belong to the southern star.</p> <p>104449. The spectrum is suspected to be composite.</p> <p>104513. Read 0,10-, for 0,2.</p> <p>104533.4. The spectrum is composite. On B 40107, it was classified F₅, with the remark, "May be composite. The line K is 0.8 as strong as H."</p> <p>104556. The observation G₀, on Mc 4906, residual 10, was rejected.</p> <p>104583. The star C. P. D. $-60^{\circ}3632$, magn. 9.4, precedes</p> | <p>$0^{\circ}.3$, north $2^{\circ}.6$. The spectrum is superposed and is also of Class A.</p> <p>104671. θ^1 Crucis.</p> <p>104759.60. H. D. 104759 follows $1^{\circ}.5$, north $0^{\circ}.6$. Both spectra are probably of Class F8.</p> <p>104811.2. The spectrum is composite.</p> <p>104829.30. H. D. 104829 precedes $0^{\circ}.96$, north $24^{\circ}.0$. Both spectra may be alike.</p> <p>104841. θ^2 Crucis.</p> <p>104886. RX Virginis. Variable. Class III. Max. 7.2. Min. 8.8. Period, irregular.</p> <p>104901. The star C. P. D. $-61^{\circ}2935$, magn. 8.8, follows $2^{\circ}.0$, south $0^{\circ}.3$. The spectrum is superposed and appears to be of the same, or nearly the same, class as H. D. 104901.</p> <p>104902. κ Chamaeleontis.</p> |
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